

Incorporates
NEP



Young MATHEMATICIAN

Teacher's Learning Materials

3-5



Maths Book - 3

3. Addition

Exercise 3.1

1. (a) 135 (b) 650 (c) 160 (d) 230
 2. (a) 15 (b) 170 (c) 105 (d) 53
 3. (a) $\overset{11}{450}$ (b) $\overset{12}{137}$ (c) $\overset{22}{539}$
 $\begin{array}{r} 450 \\ + 342 \\ + 9 \\ \hline 801 \end{array}$ $\begin{array}{r} 137 \\ + 89 \\ + 156 \\ \hline 382 \end{array}$ $\begin{array}{r} 539 \\ + 50 \\ + 125 \\ \hline 714 \end{array}$

Exercise 3.2

1. (a) 6879 (b) 8777 (c) 7998 (d) 9460
 2. (a) 8293 (b) 5999 (c) 9666 (d) 8966
 3. (a) $\overset{11}{4592}$ (b) $\overset{111}{5688}$ (c) $\overset{1}{1450}$ (d) $\overset{111}{7912}$
 $\begin{array}{r} 4592 \\ + 3515 \\ \hline 8107 \end{array}$ $\begin{array}{r} 5688 \\ + 2786 \\ \hline 8474 \end{array}$ $\begin{array}{r} 1450 \\ + 1090 \\ \hline 2540 \end{array}$ $\begin{array}{r} 7912 \\ + 1099 \\ \hline 9011 \end{array}$
 4. (a) 8157 (b) 9067 (c) 9441 (d) 9336
 (e) 9860 (f) 8164 (g) 4010 (h) 9770

Exercise 3.3

- a. $\begin{array}{r} 3416 \\ + 6002 \\ \hline 9418 \end{array}$ $\begin{array}{r} 6002 \\ + 3416 \\ \hline 9418 \end{array}$ b. $\overset{11}{5610}$ $\overset{11}{1672}$
 $\begin{array}{r} 5610 \\ + 342 \\ \hline 5952 \end{array}$ $\begin{array}{r} 1672 \\ + 342 \\ \hline 2014 \end{array}$ $\begin{array}{r} 5610 \\ + 1672 \\ \hline 7282 \end{array}$ $\begin{array}{r} 1672 \\ + 5610 \\ \hline 7282 \end{array}$
 c. $\overset{1}{2561}$ $\overset{1}{3429}$ d. $\overset{1}{4516}$ $\overset{1}{1324}$
 $\begin{array}{r} 2561 \\ + 3429 \\ \hline 6000 \end{array}$ $\begin{array}{r} 3429 \\ + 2561 \\ \hline 6000 \end{array}$ $\begin{array}{r} 4516 \\ + 1000 \\ + 1324 \\ \hline 6840 \end{array}$ $\begin{array}{r} 1324 \\ + 1000 \\ + 4516 \\ \hline 6840 \end{array}$
 e. $\begin{array}{r} 6571 \\ + 4302 \\ \hline 10873 \end{array}$ $\begin{array}{r} 4302 \\ + 6571 \\ \hline 10873 \end{array}$

Exercise 3.4

1. (a) 5563 (b) 1487 (c) 709 (d) 7210
 (e) 3210 (f) 5651 (g) 9924
 2. (a) > 6000 (b) > 5000 (c) > 900 (d) > 4000
 (e) > 1000 (f) > 700
 3. (a) 400 (b) 400 (c) 100 (d) 500
 (e) 1700 (f) 3000

Exercise 3.5

1. (a) $\begin{array}{r} 567 \\ + 421 \\ \hline 988 \end{array}$
 (b) $\begin{array}{r} 300 \\ + 400 \\ \hline 700 \end{array}$
 (c) $\begin{array}{r} 560 \\ + 320 \\ \hline 880 \end{array}$
 (d) $\begin{array}{r} 689 \\ + 102 \\ \hline 791 \end{array}$
 (e) $\begin{array}{r} 743 \\ + 475 \\ \hline 1218 \end{array}$
 (f) $\begin{array}{r} 888 \\ + 390 \\ \hline 1278 \end{array}$

Exercise 3.6

1. $\begin{array}{r} 1270 \\ + 1220 \\ \hline 2490 \end{array}$ 2. $\begin{array}{r} 474 \\ + 551 \\ \hline 1025 \end{array}$ 3. $\begin{array}{r} 1056 \\ + 380 \\ \hline 1436 \end{array}$ 4. $\begin{array}{r} 3068 \\ + 2575 \\ \hline 5643 \end{array}$
 5. $\begin{array}{r} 4830 \\ + 4070 \\ \hline 8900 \end{array}$

Exercise 3.7

- (a) $\begin{array}{r} 370 \\ + 480 \\ \hline 850 \end{array}$ (b) $\begin{array}{r} 120 \\ + 70 \\ \hline 190 \end{array}$ (c) $\begin{array}{r} 1080 \\ + 3450 \\ \hline 4530 \end{array}$ (d) $\begin{array}{r} 2956 \\ + 500 \\ \hline 3456 \end{array}$

Exercise 3.8

1. (a), 2. (d), 3. (b), 4. (d), 5. (b), 6. (c), 7. (a), 8. (d), 9. (a)
 10. $\begin{array}{r} 426 \\ + 63 \\ \hline 489 \end{array}$ (c)

4. Subtraction

Exercise 4.1

1. (a) $\begin{array}{r} 234 \\ - 122 \\ \hline 112 \end{array}$ (b) $\begin{array}{r} 356 \\ - 170 \\ \hline 186 \end{array}$ (c) $\begin{array}{r} 567 \\ - 118 \\ \hline 449 \end{array}$
 2. (a) $\begin{array}{r} 113 \\ - 245 \\ \hline 132 \end{array}$ (b) $\begin{array}{r} 485 \\ - 38 \\ \hline 447 \end{array}$ (c) $\begin{array}{r} 464 \\ - 44 \\ \hline 420 \end{array}$
 3. (a) True (b) False (c) False (d) True
 (e) True
 4. (a) 17 (b) 64 (c) 39 (d) 71
 5. (a) $26 - 14 = 12$ (b) $43 - 13 = 30$
 (c) $65 - 32 = 33$ (d) $25 - 12 = 13$
 6. (a) $\begin{array}{r} 136 \\ - 57 \\ \hline 79 \end{array}$ (b) $\begin{array}{r} 287 \\ - 56 \\ \hline 231 \end{array}$ (c) $\begin{array}{r} 178 \\ - 111 \\ \hline 67 \end{array}$ (d) $\begin{array}{r} 306 \\ - 120 \\ \hline 186 \end{array}$

Exercise 4.2

1. (a) $\begin{array}{r} 3724 \\ - 1201 \\ \hline 2523 \end{array}$ (b) $\begin{array}{r} 5609 \\ - 2304 \\ \hline 3305 \end{array}$ (c) $\begin{array}{r} 4751 \\ - 3511 \\ \hline 1240 \end{array}$ (d) $\begin{array}{r} 6352 \\ - 4210 \\ \hline 2142 \end{array}$
 (e) $\begin{array}{r} 6352 \\ - 4210 \\ \hline 2142 \end{array}$ (f) $\begin{array}{r} 5573 \\ - 1242 \\ \hline 4331 \end{array}$
 2. (a) $\begin{array}{r} 5612 \\ - 3210 \\ \hline 2402 \end{array}$ (b) $\begin{array}{r} 9834 \\ - 7613 \\ \hline 2221 \end{array}$ (c) $\begin{array}{r} 5662 \\ - 4251 \\ \hline 1411 \end{array}$ (d) $\begin{array}{r} 8729 \\ - 6528 \\ \hline 2201 \end{array}$

Exercise 4.3

1. (a) (b) (c) (d)
 2. (a) $\overset{11}{5718}$ (b) $\overset{11}{5081}$ (c) $\begin{array}{r} 6314 \\ - 6157 \\ \hline 157 \end{array}$ (d) $\overset{11}{7346}$
 $\begin{array}{r} 5718 \\ - 4399 \\ \hline 1319 \end{array}$ $\begin{array}{r} 5081 \\ - 3492 \\ \hline 1589 \end{array}$ $\begin{array}{r} 6314 \\ - 6157 \\ \hline 157 \end{array}$ $\begin{array}{r} 7346 \\ - 6857 \\ \hline 489 \end{array}$

$$\begin{array}{r} \overset{1}{5} \overset{1}{2} 67 \\ - 3487 \\ \hline 1780 \end{array}$$

$$\begin{array}{r} \overset{1}{8} \overset{1}{6} 23 \\ - 954 \\ \hline 7669 \end{array}$$

$$\begin{array}{r} \overset{1}{3} 80 \\ + 556 \\ \hline 936 \end{array} \quad \begin{array}{r} 936 \\ - 274 \\ \hline 662 \end{array}$$

$$\begin{array}{r} 5836 \\ - 2499 \\ \hline 3337 \end{array} \quad \begin{array}{r} \overset{1}{3} 337 \\ + 1370 \\ \hline 4707 \end{array}$$

Exercise 4.4

$$\begin{array}{l} 1. (a) \begin{array}{r} 456 \\ - 134 \\ \hline 322 \end{array} \quad (b) \begin{array}{r} 667 \\ - 598 \\ \hline 069 \end{array} \quad (c) \begin{array}{r} 382 \\ - 236 \\ \hline 146 \end{array} \quad (d) \begin{array}{r} 731 \\ - 453 \\ \hline 278 \end{array} \end{array}$$

$$\begin{array}{l} (e) \begin{array}{r} 835 \\ - 627 \\ \hline 208 \end{array} \quad (f) \begin{array}{r} 883 \\ - 794 \\ \hline 089 \end{array} \end{array}$$

$$\begin{array}{l} 2. (a) \begin{array}{r} 2389 \\ - 1411 \\ \hline 0978 \end{array} \quad (b) \begin{array}{r} 6734 \\ - 5418 \\ \hline 1316 \end{array} \quad (c) \begin{array}{r} 7385 \\ - 4367 \\ \hline 3018 \end{array} \quad (d) \begin{array}{r} 4956 \\ - 1893 \\ \hline 3063 \end{array} \end{array}$$

$$\begin{array}{l} (e) \begin{array}{r} 8355 \\ - 7968 \\ \hline 0387 \end{array} \quad (f) \begin{array}{r} 9056 \\ - 8988 \\ \hline 0068 \end{array} \end{array}$$

$$\begin{array}{l} 3. (a) \begin{array}{l} 56 = 50 + 6 \\ 76 - 50 = 26 \\ 26 - 6 = 20 \end{array} \quad (b) \begin{array}{l} 23 = 20 + 3 \\ 89 - 20 = 69 \\ 69 - 3 = 66 \end{array} \\ (c) \begin{array}{l} 34 = 30 + 4 \\ 56 - 30 = 26 \\ 26 - 4 = 22 \end{array} \quad (d) \begin{array}{l} 38 = 30 + 8 \\ 63 - 30 = 33 \\ 33 - 8 = 25 \end{array} \\ (e) \begin{array}{l} 48 = 40 + 8 \\ 95 - 40 = 55 \\ 55 - 8 = 47 \end{array} \quad (f) \begin{array}{l} 79 = 70 + 9 \\ 83 - 70 = 13 \\ 13 - 9 = 4 \end{array} \end{array}$$

Exercise 4.5

$$\begin{array}{l} 1. (a) \begin{array}{l} 456 + 130 = 586 \\ 586 - 456 = 130 \\ 586 - 130 = 456 \end{array} \quad (b) \begin{array}{l} 1298 + 4633 = 5931 \\ 5931 - 1298 = 4633 \\ 5931 - 4633 = 1298 \end{array} \\ (c) \begin{array}{l} 235 + 742 = 977 \\ 977 - 235 = 742 \\ 977 - 742 = 235 \end{array} \quad (d) \begin{array}{l} 6409 + 2157 = 8566 \\ 8566 - 6409 = 2157 \\ 8566 - 2157 = 6409 \end{array} \end{array}$$

$$\begin{array}{l} 2. (a) \begin{array}{r} \overset{1}{4} 82 \quad \overset{1}{1} 67 \\ - 315 \quad + 315 \\ \hline 167 \quad 482 \end{array} \quad (b) \begin{array}{r} 5619 \quad 3215 \\ - 2404 \quad + 2404 \\ \hline 3215 \quad 5619 \end{array} \end{array}$$

$$\begin{array}{l} (c) \begin{array}{r} 9372 \quad \overset{1}{4} 307 \\ - 5065 \quad + 5065 \\ \hline 4307 \quad 9372 \end{array} \quad (d) \begin{array}{r} \overset{1}{3} \overset{1}{2} \overset{1}{3} 3 \quad \overset{1}{1} \overset{1}{1} \overset{1}{1} 485 \\ - 1748 \quad + 1748 \\ \hline 1485 \quad 3233 \end{array} \end{array}$$

$$\begin{array}{l} 3. (a) \begin{array}{r} 781 \quad \overset{1}{2} 35 \\ - 546 \quad + 155 \\ \hline 235 \quad 390 \end{array} \quad (b) \begin{array}{r} 1893 \quad \overset{1}{1} \overset{1}{6} 37 \\ - 256 \quad + 4503 \\ \hline 1637 \quad 6140 \end{array} \end{array}$$

$$\begin{array}{l} (c) \begin{array}{r} \overset{1}{1} 621 \quad 3703 \\ + 2082 \quad 1433 \\ \hline 3703 \quad 2270 \end{array} \quad (d) \begin{array}{r} \overset{1}{4} \overset{1}{3} 95 \quad 5066 \\ + 671 \quad - 2316 \\ \hline 5066 \quad 2750 \end{array} \end{array}$$

Exercise 4.6

$$\begin{array}{l} 1. (a) \begin{array}{r} 645 \\ - 524 \\ \hline 121 \end{array} \quad (b) \begin{array}{r} \overset{1}{9} 66 \\ - 248 \\ \hline 718 \end{array} \quad (c) \begin{array}{r} \overset{1}{7} \overset{1}{8} 3 \\ - 398 \\ \hline 385 \end{array} \quad (d) \begin{array}{r} \overset{1}{7} \overset{1}{1} \overset{1}{2} 3 \\ - 4326 \\ \hline 3097 \end{array} \end{array}$$

$$\begin{array}{l} (e) \begin{array}{r} \overset{1}{8} 498 \\ - 3457 \\ \hline 5033 \end{array} \quad (f) \begin{array}{r} 5611 \\ - 4720 \\ \hline 0 \end{array} \end{array}$$

Exercise 4.7

$$\begin{array}{l} 1. \begin{array}{r} 4561 \\ - 1890 \\ \hline 2671 \end{array} \quad 2. \begin{array}{r} 674 \\ - 158 \\ \hline 516 \end{array} \quad 3. \begin{array}{r} 6734 \\ - 3528 \\ \hline 3206 \end{array} \quad 4. \begin{array}{r} 1335 \\ - 727 \\ \hline 608 \end{array} \end{array}$$

$$\begin{array}{l} 5. \begin{array}{r} 6784 \\ - 4643 \\ \hline 2141 \end{array} \quad \begin{array}{r} 7846 \\ - 6354 \\ \hline 1492 \end{array} \quad 6. \begin{array}{r} 5450 \\ - 2348 \\ \hline 3102 \end{array} \quad 7. \begin{array}{r} 5722 \\ - 4366 \\ \hline 1356 \end{array} \end{array}$$

Exercise 4.8

$$\begin{array}{l} 1. (a) \begin{array}{r} 5349 \\ - 1467 \\ \hline 3882 \end{array} \quad (b) \begin{array}{r} 845 \\ - 399 \\ \hline 446 \end{array} \quad (c) \begin{array}{r} 1276 \\ - 957 \\ \hline 319 \end{array} \quad (d) \begin{array}{r} 7883 \\ - 5741 \\ \hline 2142 \end{array} \end{array}$$

$$\begin{array}{l} (e) \begin{array}{r} 234 \\ - 110 \\ \hline 124 \end{array} \quad (f) \begin{array}{r} 1000 \\ - 101 \\ \hline 899 \end{array} \end{array}$$

Exercise 4.9

1. (d), 2. (a), 3. (c), 4. (a), 5. (d), 6. (b)

5. Multiplication

Exercise 5.1

- (a) There are **3** goat.
One goat has **4** legs.
So, the number of legs is **3** time **4**.
or, $4 + 4 + 4 = 12$
or, $3 \times 4 = 12$
- (b) There are **5** children.
One child has **10** fingers in two hands.
Total number of fingers in two hands is **5** times **10**
or, $10 + 10 + 10 + 10 + 10 = 50$
or, $5 \times 10 = 50$

	Repeated addition	Multiplication fact
a.	$3 + 3 + 3 + 3 = 12$	$4 \times 3 = 12$
b.	$7 + 7 + 7 + 7 + 7 = 35$	$5 \times 7 = 35$
c.	$6 + 6 + 6 = 18$	$3 \times 6 = 18$
d.	$2 + 2 + 2 + 2 + 2 = 12$	$6 \times 2 = 12$
e.	$5 + 5 + 5 + 5 = 20$	$4 \times 5 = 20$

Exercise 5.2

(a) 7, (b) 1, (c) 0, (d) 0, (e) 2, (f) 9, (g) 7, (h) 4

Exercise 5.3

Do yourself.

Exercise 5.4

1. (a) $\begin{array}{r} 22 \\ \times 4 \\ \hline 88 \end{array}$ (b) $\begin{array}{r} 85 \\ \times 1 \\ \hline 85 \end{array}$ (c) $\begin{array}{r} 43 \\ \times 2 \\ \hline 86 \end{array}$ (d) $\begin{array}{r} 13 \\ \times 3 \\ \hline 39 \end{array}$
- (e) $\begin{array}{r} 23 \\ \times 2 \\ \hline 46 \end{array}$ (f) $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ (g) $\begin{array}{r} 22 \\ \times 3 \\ \hline 66 \end{array}$ (h) $\begin{array}{r} 44 \\ \times 2 \\ \hline 88 \end{array}$
- (i) $\begin{array}{r} 322 \\ \times 2 \\ \hline 644 \end{array}$ (j) $\begin{array}{r} 212 \\ \times 3 \\ \hline 636 \end{array}$ (k) $\begin{array}{r} 789 \\ \times 1 \\ \hline 789 \end{array}$
2. (a) $\begin{array}{r} 3432 \\ \times 2 \\ \hline 6864 \end{array}$ (b) $\begin{array}{r} 1332 \\ \times 3 \\ \hline 3996 \end{array}$ (c) $\begin{array}{r} 1100 \\ \times 5 \\ \hline 5500 \end{array}$
- (d) $\begin{array}{r} 1202 \\ \times 4 \\ \hline 4808 \end{array}$ (e) $\begin{array}{r} 8969 \\ \times 1 \\ \hline 8969 \end{array}$ (f) $\begin{array}{r} 2220 \\ \times 4 \\ \hline 8880 \end{array}$

Exercise 5.5

1. (a) $\begin{array}{r} 24 \\ \times 4 \\ \hline 96 \end{array}$ (b) $\begin{array}{r} 68 \\ \times 2 \\ \hline 136 \end{array}$ (c) $\begin{array}{r} 14 \\ \times 6 \\ \hline 84 \end{array}$ (d) $\begin{array}{r} 77 \\ \times 5 \\ \hline 385 \end{array}$
- (e) $\begin{array}{r} 80 \\ \times 3 \\ \hline 240 \end{array}$ (f) $\begin{array}{r} 91 \\ \times 7 \\ \hline 637 \end{array}$ (g) $\begin{array}{r} 62 \\ \times 6 \\ \hline 372 \end{array}$ (h) $\begin{array}{r} 45 \\ \times 5 \\ \hline 225 \end{array}$
- (i) $\begin{array}{r} 59 \\ \times 5 \\ \hline 295 \end{array}$ (j) $\begin{array}{r} 73 \\ \times 8 \\ \hline 584 \end{array}$ (k) $\begin{array}{r} 18 \\ \times 4 \\ \hline 72 \end{array}$ (l) $\begin{array}{r} 99 \\ \times 9 \\ \hline 891 \end{array}$

Exercise 5.6

1. (a) $\begin{array}{r} 223 \\ \times 4 \\ \hline 892 \end{array}$ (b) $\begin{array}{r} 228 \\ \times 2 \\ \hline 456 \end{array}$ (c) $\begin{array}{r} 306 \\ \times 3 \\ \hline 918 \end{array}$ (d) $\begin{array}{r} 425 \\ \times 2 \\ \hline 850 \end{array}$
- (e) $\begin{array}{r} 175 \\ \times 5 \\ \hline 875 \end{array}$ (f) $\begin{array}{r} 236 \\ \times 5 \\ \hline 1180 \end{array}$ (g) $\begin{array}{r} 684 \\ \times 3 \\ \hline 2052 \end{array}$ (h) $\begin{array}{r} 825 \\ \times 2 \\ \hline 4125 \end{array}$
- (i) $\begin{array}{r} 746 \\ \times 8 \\ \hline 5968 \end{array}$ (j) $\begin{array}{r} 547 \\ \times 9 \\ \hline 4923 \end{array}$
1. (a) $\begin{array}{r} 237 \\ \times 2 \\ \hline 474 \end{array}$ (b) $\begin{array}{r} 205 \\ \times 3 \\ \hline 615 \end{array}$ (c) $\begin{array}{r} 328 \\ \times 4 \\ \hline 1312 \end{array}$ (d) $\begin{array}{r} 462 \\ \times 7 \\ \hline 3234 \end{array}$

- (e) $\begin{array}{r} 43 \\ 175 \\ \times 6 \\ \hline 1050 \end{array}$ (f) $\begin{array}{r} 23 \\ 268 \\ \times 4 \\ \hline 1072 \end{array}$ (g) $\begin{array}{r} 13 \\ 137 \\ \times 5 \\ \hline 685 \end{array}$ (h) $\begin{array}{r} 16 \\ 517 \\ \times 9 \\ \hline 4653 \end{array}$

Exercise 5.7

- (a) 90, (b) 870, (c) 3190, (d) 8000, (e) 1000, (f) 5520, (g) 800, (h) 7200, (i) 3000, (j) 5700, (k) 2400, (l) 9000, (m) 3000, (n) 6000

Exercise 5.8

1. (a) $\begin{array}{r} 34 \\ \times 22 \\ \hline 68 \\ 680 \\ \hline 748 \end{array}$ (b) $\begin{array}{r} 42 \\ \times 19 \\ \hline 378 \\ 420 \\ \hline 798 \end{array}$ (c) $\begin{array}{r} 39 \\ \times 12 \\ \hline 78 \\ 390 \\ \hline 468 \end{array}$
- (d) $\begin{array}{r} 67 \\ \times 51 \\ \hline 67 \\ 3350 \\ \hline 3417 \end{array}$ (e) $\begin{array}{r} 93 \\ \times 27 \\ \hline 651 \\ 1860 \\ \hline 2511 \end{array}$ (f) $\begin{array}{r} 52 \\ \times 24 \\ \hline 208 \\ 1040 \\ \hline 1248 \end{array}$
- (g) $\begin{array}{r} 258 \\ \times 31 \\ \hline 258 \\ 7740 \\ \hline 7998 \end{array}$ (h) $\begin{array}{r} 262 \\ \times 25 \\ \hline 1310 \\ 5240 \\ \hline 6550 \end{array}$ (i) $\begin{array}{r} 142 \\ \times 53 \\ \hline 426 \\ 7100 \\ \hline 7526 \end{array}$
2. (a) $\begin{array}{r} 74 \\ \times 12 \\ \hline 148 \\ 740 \\ \hline 888 \end{array}$ (b) $\begin{array}{r} 79 \\ \times 22 \\ \hline 158 \\ 1580 \\ \hline 1738 \end{array}$ (c) $\begin{array}{r} 99 \\ \times 29 \\ \hline 891 \\ 1980 \\ \hline 2871 \end{array}$ (d) $\begin{array}{r} 82 \\ \times 98 \\ \hline 656 \\ 7380 \\ \hline 8036 \end{array}$
- (e) $\begin{array}{r} 59 \\ \times 68 \\ \hline 742 \\ 3540 \\ \hline 4012 \end{array}$ (f) $\begin{array}{r} 66 \\ \times 66 \\ \hline 396 \\ 3960 \\ \hline 4956 \end{array}$ (g) $\begin{array}{r} 169 \\ \times 59 \\ \hline 1521 \\ 8450 \\ \hline 9971 \end{array}$ (h) $\begin{array}{r} 387 \\ \times 25 \\ \hline 1935 \\ 7740 \\ \hline 9675 \end{array}$

Exercise 5.9

1. Apples to make 1 pie = 10
Apples you need to make = 12 pies
= 10×12
= 120
Apples in 10 pie is = 120
2. Rahul reads stories in a day = 6
Rahul reads stories in 2 week.
= 1 week = 7 days
= 2 week = 7×2
= 14 days
he reads stories in 14 das = $14 \times 6 = 84$
he reads stories in 2 weeks is 4.

3. Pencils in a pencil box = 12
Pencils in 5 pencil box
 $= 12 \times 5 = 60$
Pencil in 5 pencil box is 60.
4. Matchsticks in 1 matchbox = 50
Matchsticks in 23 matchbox.
 $= 50 \times 23$
 $= 1150$
total matchsticks in 23 matchbox is 1150
5. candles in 1 packet = 32
candles in 44 packet
 $= 32 \times 44$
 $= 1408$
total candles in 44 packets is 1408
6. Newspapers shyam delivers every morning = 157
Newspapers shyam deliver in 31 day.
 $= 157 \times 31 = 4867$
total newspapers shyam delivers in 31 days = 4867
7. Frog jumps on stone – 4
Number of stone of frog jumps on 12th
 $= 12 \times 4 =$
 $= 48$
The frog lands on the 48th stone.
8. Tomatoes contains in 1 basket = 321
and tomatoes in 3 basket

$$\begin{array}{r} 321 \\ \times 3 \\ \hline 963 \end{array}$$

total tomatoes in 3 basket is 963.

6. Division

Exercise 6.1

- A. 1. 6; 6; 6
2. 3; 3; 3
3. 2; 2; 2
- B. Do yourself.
- C. Fill in the blanks.
Total stars = **16**
Number of clouds = **2**
Each cloud will have **8** stars; $2 \div 8 = 16$
- D. Look at the pictures and fill in the blanks.
Total number of bananas = **24**
Number of bananas in each plate = **4**
Number of plates = **6**

Exercise 6.2

1. 4; 4; 4, 2. 6; 6; 66, 3. 8; 8; 8

Exercise 6.3

A. Dividend	Divisor	Quotient
34	2	17
45	15	3
36	9	4
84	12	7
7	6	12

B. Question

$$32 \div 8 = 4$$

$$32 \div 4 = 8$$

$$66 \div 3 = 22$$

$$91 \div 13 = 7$$

Exercise 6.4

- A. 1. 2, 2. 3, 3. 4
B. 1. 3, 2. 4, 3. 5, 4. 8, 5. 8
C. 1. 6, 2. 9, 3. 6, 4. 4, 5. 5

Exercise 6.5

- A. 1. a. $84 \div 7 = 12$ 2. a. $24 \div 3 = 8$
b. $84 \div 12 = 7$ b. $24 \div 8 = 3$
3. a. $78 \div 6 = 13$ 4. a. $72 \div 8 = 9$
b. $78 \div 13 = 6$ b. $72 \div 9 = 8$
- B. 1. $3 \times 12 = 36$ 5. $8 \times 8 = 64$
2. $17 \times 3 = 51$ 6. $8 \times 7 = 56$
3. $14 \times 4 = 56$ 7. $9 \times 8 = 72$
4. $6 \times 8 = 48$ 8. $9 \times 9 = 81$
- C. 1. <, 2. <, 3. <, 4. <, 5. >, 6. =

- D. 1.
$$\begin{array}{r} 8 \overline{) 64} \\ \underline{64} \\ 0 \end{array}$$
 2.
$$\begin{array}{r} 5 \overline{) 45} \\ \underline{45} \\ 0 \end{array}$$
 3.
$$\begin{array}{r} 4 \overline{) 12} \\ \underline{12} \\ 0 \end{array}$$
 4.
$$\begin{array}{r} 2 \overline{) 18} \\ \underline{18} \\ 0 \end{array}$$
5.
$$\begin{array}{r} 12 \overline{) 12} \\ \underline{12} \\ 0 \end{array}$$
 6.
$$\begin{array}{r} 3 \overline{) 36} \\ \underline{36} \\ 0 \end{array}$$
 7.
$$\begin{array}{r} 7 \overline{) 14} \\ \underline{14} \\ 0 \end{array}$$
 8.
$$\begin{array}{r} 6 \overline{) 66} \\ \underline{66} \\ 0 \end{array}$$
9.
$$\begin{array}{r} 9 \overline{) 81} \\ \underline{81} \\ 0 \end{array}$$

Exercise 6.6

A. Quotient

1. 4 6. 3
2. 6 7. 7
3. 7 8. 1
4. 5 9. 7
5. 8 10. 8

B. Divisor

1. 8 6. 6
2. 8 7. 8
3. 9 8. 2
4. 8 9. 4
5. 7 10. 6

C. Dividend

1. 30 6. 55
2. 49 7. 84
3. 39 8. 63
4. 56 9. 110
5. 36 10. 45

Exercise 6.7

A. Do yourself.

- B. 1. 8; 2 4. 66; 3
 2. 8; 2 5. 9; 1
 3. 9; 1 6. 6; 2

C. 1. He paste pictures on one page = 4

$$\begin{aligned} \text{He has to paste pictures} &= 12 \\ &= 12 \div 4 \\ &= 3 \end{aligned}$$

He has 12 pictures in 3 pages.

2. Each box must hold 9 photos.
 Photos 4 photos are left.
 3.

Exercise 6.8

Questions	Q	R	Q × Divisor + R	Q × Divisor + R = Dividends?	X or ✓	
					Q	R
1. $\begin{array}{r} 5 \overline{) 28} \end{array}$	5	2	$5 \times 5 + 2 = 27$	$27 \neq 28$	✓	✗
2. $\begin{array}{r} 3 \overline{) 26} \end{array}$	7	2	$7 \times 3 + 2 = 23$	$26 \neq 26$	✗	✗
3. $\begin{array}{r} 7 \overline{) 43} \end{array}$	6	1	$6 \times 7 + 1 = 43$	$43 = 43$	✓	✓
4. $\begin{array}{r} 3 \overline{) 19} \end{array}$	5	4	$5 \times 3 + 4 = 19$	$19 \neq 19$	✓	✓
5. $\begin{array}{r} 6 \overline{) 25} \end{array}$	4	1	$4 \times 6 + 1 = 25$	$25 \neq 25$	✓	✓
6. $\begin{array}{r} 9 \overline{) 46} \end{array}$	4	10	$4 \times 9 + 10 = 46$	$46 \neq 46$	✗	✓

B. **Quotient** **Question** **Remainder**

1. 6 ——— $\begin{array}{r} 4 \overline{) 36} \end{array}$ ——— 1
 2. 5 ——— $\begin{array}{r} 8 \overline{) 65} \end{array}$ ——— 3
 3. 9 ——— $\begin{array}{r} 7 \overline{) 45} \end{array}$ ——— 4
 4. 4 ——— $\begin{array}{r} 6 \overline{) 26} \end{array}$ ——— 0
 5. 8 ——— $\begin{array}{r} 9 \overline{) 49} \end{array}$ ——— 2

Exercise 6.9

1. $\begin{array}{r} 21 \\ 2 \overline{) 42} \\ \underline{4} \\ 02 \\ \underline{2} \\ 0 \end{array}$ $\begin{array}{r} 21 \\ \times 2 \\ \underline{22} \end{array}$
 $21 \times 2 + 0 = 22$
 Ans: Q = 21, R = 0

2. $\begin{array}{r} 23 \\ 3 \overline{) 69} \\ \underline{6} \\ 09 \\ \underline{9} \\ 0 \end{array}$ $\begin{array}{r} 23 \\ \times 3 \\ \underline{69} \end{array}$
 $23 \times 3 + 0 = 69$
 Ans: Q = 23, R = 0

3. $\begin{array}{r} 21 \\ 4 \overline{) 84} \\ \underline{8} \\ 04 \\ \underline{4} \\ 0 \end{array}$ $\begin{array}{r} 21 \\ \times 4 \\ \underline{84} \end{array}$
 $21 \times 4 + 0 = 84$
 Ans: Q = 21, R = 0

4. $\begin{array}{r} 50 \\ 5 \overline{) 50} \\ \underline{50} \\ 0 \end{array}$ $10 \times 5 + 0 = 50$
 Ans: Q = 10, R = 0

5. $\begin{array}{r} 11 \\ 6 \overline{) 66} \\ \underline{6} \\ 06 \\ \underline{6} \\ 0 \end{array}$ $11 \times 6 + 0 = 66$
 Ans: Q = 11, R = 0

6. $\begin{array}{r} 10 \\ 7 \overline{) 70} \\ \underline{70} \\ 0 \end{array}$ $10 \times 7 + 0 = 70$
 Ans: Q = 10, R = 0

7. $\begin{array}{r} 11 \\ 8 \overline{) 89} \\ \underline{8} \\ 09 \\ \underline{1} \end{array}$ $11 \times 8 + 1 = 89$
 Ans: Q = 11, R = 0

8. $\begin{array}{r} 10 \\ 9 \overline{) 98} \\ \underline{90} \\ 8 \end{array}$ $10 \times 9 + 8 = 98$
 Ans: Q = 10, R = 8

9. $\begin{array}{r} 100 \\ 8 \overline{) 800} \\ \underline{80} \\ 00 \\ \underline{0} \\ 0 \end{array}$ $100 \times 8 + 0 = 800$
 Ans: Q = 100, R = 0

10. $\begin{array}{r} 101 \\ 7 \overline{) 707} \\ \underline{70} \\ 07 \\ \underline{7} \\ 0 \end{array}$ $101 \times 7 + 0 = 707$
 Ans: Q = 101, R = 0

11. $\begin{array}{r} 116 \\ 6 \overline{) 666} \\ \underline{6} \\ 06 \\ \underline{6} \\ 06 \\ \underline{6} \\ 0 \end{array}$ $111 \times 6 + 0 = 666$
 Ans: Q = 111, R = 0

12. $\begin{array}{r} 101 \\ 5 \overline{) 508} \\ \underline{5} \\ 008 \\ \underline{5} \\ 3 \end{array}$ $101 \times 5 + 3 = 508$
 Ans: Q = 101, R = 3

$$\begin{array}{r}
 13. \quad \begin{array}{r} 201 \\ 4 \overline{)807} \\ \underline{8} \\ 00 \\ \underline{0} \\ 07 \\ \underline{4} \\ 3 \end{array}
 \end{array}$$

$201 \times 4 + 3 = 807$
 Ans: Q = 201, R = 3

$$\begin{array}{r}
 19. \quad \begin{array}{r} 101 \\ 7 \overline{)709} \\ \underline{7} \\ 009 \\ \underline{7} \\ 2 \end{array}
 \end{array}$$

$101 \times 7 + 2 = 707$
 Ans: Q = 101, R = 2

$$\begin{array}{r}
 14. \quad \begin{array}{r} 231 \\ 3 \overline{)693} \\ \underline{6} \\ 09 \\ \underline{0} \\ 03 \\ \underline{3} \\ 3 \end{array}
 \end{array}$$

$231 \times 3 + 0 = 693$
 Ans: Q = 231, R = 3

$$\begin{array}{r}
 20. \quad \begin{array}{r} 101 \\ 6 \overline{)609} \\ \underline{6} \\ 009 \\ \underline{6} \\ 3 \end{array}
 \end{array}$$

$101 \times 6 + 3 = 609$
 Ans: Q = 101, R = 3

Exercise 6.10

$$\begin{array}{r}
 15. \quad \begin{array}{r} 404 \\ 2 \overline{)808} \\ \underline{8} \\ 009 \\ \underline{8} \\ 1 \end{array}
 \end{array}$$

$404 \times 2 + 1 = 809$
 Ans: Q = 404, R = 1

$$\begin{array}{r}
 1. \quad \begin{array}{r} 45 \\ 3 \overline{)45} \\ \underline{3} \\ 15 \\ \underline{15} \\ 0 \end{array}
 \end{array}$$

$15 \times 3 + 0 = 45$
 Ans: Q = 15, R = 0

$$\begin{array}{r}
 16. \quad \begin{array}{r} 122 \\ 3 \overline{)367} \\ \underline{3} \\ 06 \\ \underline{6} \\ 07 \\ \underline{6} \\ 1 \end{array}
 \end{array}$$

$122 \times 3 + 1 = 367$
 Ans: Q = 122, R = 1

$$\begin{array}{r}
 2. \quad \begin{array}{r} 14 \\ 5 \overline{)73} \\ \underline{5} \\ 53 \\ \underline{20} \\ 3 \end{array}
 \end{array}$$

$14 \times 5 + 3 = 73$
 Ans: Q = 14, R = 3

$$\begin{array}{r}
 17. \quad \begin{array}{r} 121 \\ 4 \overline{)487} \\ \underline{4} \\ 08 \\ \underline{8} \\ 07 \\ \underline{4} \\ 3 \end{array}
 \end{array}$$

$121 \times 4 + 3 = 487$
 Ans: Q = 121, R = 3

$$\begin{array}{r}
 3. \quad \begin{array}{r} 16 \\ 4 \overline{)64} \\ \underline{4} \\ 24 \\ \underline{24} \\ 0 \end{array}
 \end{array}$$

$16 \times 4 + 0 = 64$
 Ans: Q = 16, R = 0

$$\begin{array}{r}
 18. \quad \begin{array}{r} 110 \\ 8 \overline{)887} \\ \underline{8} \\ 08 \\ \underline{8} \\ 07 \\ \underline{0} \\ 7 \end{array}
 \end{array}$$

$110 \times 8 + 7 = 887$
 Ans: Q = 110, R = 7

$$\begin{array}{r}
 4. \quad \begin{array}{r} 13 \\ 7 \overline{)95} \\ \underline{7} \\ 25 \\ \underline{21} \\ 4 \end{array}
 \end{array}$$

$13 \times 7 + 4 = 95$
 Ans: Q = 13, R = 4

$$\begin{array}{r}
 5. \quad \begin{array}{r} 13 \\ 6 \overline{)81} \\ \underline{6} \\ 21 \\ \underline{18} \\ 3 \end{array}
 \end{array}$$

$13 \times 6 + 3 = 81$
 Ans: Q = 13, R = 3

$$\begin{array}{r}
 6. \quad \begin{array}{r} 162 \\ 5 \overline{)810} \\ \underline{5} \\ 31 \\ \underline{30} \\ 10 \\ \underline{10} \\ 0 \end{array}
 \end{array}$$

$162 \times 5 + 10 = 810$
 Ans: Q = 162, R = 0

$$\begin{array}{r} 7. \quad 140 \\ 3 \overline{)422} \\ \underline{3} \\ 12 \\ \underline{12} \\ 02 \\ \underline{0} \\ 0 \end{array}$$

$$140 \times 3 + 2 = 4222$$

Ans: Q = 140, R = 2

$$\begin{array}{r} 15. \quad 73 \\ 8 \overline{)583} \\ \underline{56} \\ 23 \\ \underline{21} \\ 2 \end{array}$$

$$73 \times 8 + 2 = 583$$

Ans: Q = 73, R = 2

$$\begin{array}{r} 8. \quad 130 \\ 4 \overline{)523} \\ \underline{4} \\ 12 \\ \underline{12} \\ 03 \end{array}$$

$$130 \times 4 + 3 = 523$$

Ans: Q = 130, R = 3

$$\begin{array}{r} 16. \quad 98 \\ 8 \overline{)789} \\ \underline{72} \\ 69 \\ \underline{64} \\ 5 \end{array}$$

$$98 \times 8 + 5 = 789$$

Ans: Q = 98, R = 5

$$\begin{array}{r} 9. \quad 205 \\ 4 \overline{)820} \\ \underline{8} \\ 028 \\ \underline{20} \\ 0 \end{array}$$

$$205 \times 4 + 0 = 820$$

Ans: Q = 205, R = 0

Exercise 6.11

$$\begin{array}{r} 1. \quad 1153 \\ 4 \overline{)4614} \\ \underline{4} \\ 6 \\ \underline{4} \\ 21 \\ \underline{20} \\ 14 \\ \underline{12} \\ 2 \end{array}$$

$$1153 \times 4 + 2 = 4614$$

Ans: Q = 1153, R = 2

$$\begin{array}{r} 10. \quad 72 \\ 7 \overline{)507} \\ \underline{49} \\ 17 \\ \underline{14} \\ 3 \end{array}$$

$$72 \times 7 + 3 = 507$$

Ans: Q = 72, R = 3

$$\begin{array}{r} 2. \quad 1818 \\ 3 \overline{)5454} \\ \underline{3} \\ 24 \\ \underline{24} \\ 5 \\ \underline{3} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

$$1818 \times 3 + 0 = 5454$$

Ans: Q = 1818, R = 0

$$\begin{array}{r} 11. \quad 63 \\ 5 \overline{)318} \\ \underline{30} \\ 18 \\ \underline{15} \\ 3 \end{array}$$

$$63 \times 5 + 3 = 318$$

Ans: Q = 63, R = 3

$$\begin{array}{r} 12. \quad 20 \\ 9 \overline{)187} \\ \underline{18} \\ 07 \\ \underline{0} \end{array}$$

$$20 \times 9 + 7 = 187$$

Ans: Q = 20, R = 7

$$\begin{array}{r} 3. \quad 208 \\ 7 \overline{)1459} \\ \underline{14} \\ 59 \\ \underline{56} \\ 3 \end{array}$$

$$208 \times 7 + 3 = 1459$$

Ans: Q = 208, R = 3

$$\begin{array}{r} 13. \quad 44 \\ 8 \overline{)358} \\ \underline{32} \\ 38 \\ \underline{32} \\ 6 \end{array}$$

$$44 \times 8 + 6 = 358$$

Ans: Q = 44, R = 6

$$\begin{array}{r} 4. \quad 667 \\ 8 \overline{)5342} \\ \underline{48} \\ 54 \\ \underline{48} \\ 62 \\ \underline{56} \\ 6 \end{array}$$

$$667 \times 8 + 6 = 5342$$

Ans: Q = 667, R = 6

$$\begin{array}{r} 14. \quad 65 \\ 7 \overline{)461} \\ \underline{42} \\ 41 \\ \underline{35} \\ 6 \end{array}$$

$$65 \times 7 + 6 = 461$$

Ans: Q = 65, R = 6

$$\begin{array}{r}
 5. \quad \begin{array}{r} 1418 \\ 4 \overline{)5674} \\ \underline{-4} \\ 16 \\ \underline{16} \\ 07 \\ \underline{-4} \\ 34 \\ \underline{-32} \\ 2 \end{array}
 \end{array}$$

$1418 \times 4 + 2 = 5674$
 Ans: Q = 1418, R = 2

$$\begin{array}{r}
 11. \quad \begin{array}{r} 1188 \\ 7 \overline{)8317} \\ \underline{-7} \\ 13 \\ \underline{7} \\ 61 \\ \underline{-56} \\ 57 \\ \underline{-56} \\ 1 \end{array}
 \end{array}$$

$1188 \times 7 + 1 = 8317$
 Ans: Q = 1188, R = 1

$$\begin{array}{r}
 6. \quad \begin{array}{r} 1424 \\ 5 \overline{)7120} \\ \underline{-5} \\ 21 \\ \underline{20} \\ 12 \\ \underline{-10} \\ 20 \\ \underline{-20} \\ 0 \end{array}
 \end{array}$$

$1424 \times 5 + 0 = 7120$
 Ans: Q = 1424, R = 0

$$\begin{array}{r}
 12. \quad \begin{array}{r} 859 \\ 6 \overline{)5154} \\ \underline{-48} \\ 35 \\ \underline{30} \\ 54 \\ \underline{-54} \\ 0 \end{array}
 \end{array}$$

$859 \times 6 + 0 = 5154$
 Ans: Q = 859, R = 0

$$\begin{array}{r}
 7. \quad \begin{array}{r} 181 \\ 8 \overline{)1450} \\ \underline{-8} \\ 65 \\ \underline{64} \\ 10 \\ \underline{-8} \\ 2 \end{array}
 \end{array}$$

$181 \times 8 + 2 = 1450$
 Ans: Q = 181, R = 2

$$\begin{array}{r}
 13. \quad \begin{array}{r} 3582 \\ 2 \overline{)7165} \\ \underline{-6} \\ 11 \\ \underline{10} \\ 16 \\ \underline{-16} \\ 5 \\ \underline{-4} \\ 1 \end{array}
 \end{array}$$

$3582 \times 2 + 1 = 7165$
 Ans: Q = 3582, R = 1

$$\begin{array}{r}
 8. \quad \begin{array}{r} 1844 \\ 5 \overline{)9221} \\ \underline{-5} \\ 42 \\ \underline{40} \\ 22 \\ \underline{-20} \\ 21 \\ \underline{-20} \\ 1 \end{array}
 \end{array}$$

$1844 \times 5 + 1 = 9221$
 Ans: Q = 1844, R = 1

$$\begin{array}{r}
 14. \quad \begin{array}{r} 4246 \\ 2 \overline{)8495} \\ \underline{-8} \\ 4 \\ \underline{4} \\ 9 \\ \underline{-8} \\ 15 \\ \underline{-12} \\ 3 \end{array}
 \end{array}$$

$4246 \times 2 + 3 = 8495$
 Ans: Q = 4246, R = 3

$$\begin{array}{r}
 9. \quad \begin{array}{r} 1033 \\ 9 \overline{)9300} \\ \underline{-90} \\ 30 \\ \underline{27} \\ 30 \\ \underline{-27} \\ 3 \end{array}
 \end{array}$$

$1033 \times 9 + 3 = 9300$
 Ans: Q = 1033, R = 3

$$\begin{array}{r}
 15. \quad \begin{array}{r} 1013 \\ 5 \overline{)5067} \\ \underline{-50} \\ 6 \\ \underline{5} \\ 17 \\ \underline{-15} \\ 2 \end{array}
 \end{array}$$

$1013 \times 5 + 2 = 5067$
 Ans: Q = 1013, R = 2

$$\begin{array}{r}
 10. \quad \begin{array}{r} 108 \\ 7 \overline{)7060} \\ \underline{-70} \\ 60 \\ \underline{56} \\ 4 \end{array}
 \end{array}$$

$108 \times 7 + 4 = 7060$
 Ans: Q = 108, R = 4

$$\begin{array}{r}
 16. \quad \begin{array}{r} 1091 \\ 3 \overline{)3275} \\ \underline{-30} \\ 27 \\ \underline{27} \\ 5 \\ \underline{-3} \\ 2 \end{array}
 \end{array}$$

$1091 \times 3 + 2 = 3275$
 Ans: Q = 1091, R = 2

$$\begin{array}{r}
 17. \quad \begin{array}{r} 1249 \\ 8 \overline{)9999} \\ \underline{-8} \\ 19 \\ \underline{16} \\ 39 \\ \underline{-32} \\ 79 \\ \underline{-72} \\ 7 \end{array}
 \end{array}$$

$1249 \times 8 + 7 = 9999$
 Ans: Q = 1249, R = 7

$$\begin{array}{r}
 18. \quad \begin{array}{r} 1861 \\ 4 \overline{)7447} \\ \underline{-4} \\ 34 \\ \underline{32} \\ 24 \\ \underline{-24} \\ 7 \\ \underline{-4} \\ 3 \end{array}
 \end{array}$$

$1861 \times 4 + 6 = 7447$
 Ans: Q = 1861, R = 3

$$\begin{array}{r}
 19. \quad \begin{array}{r} 927 \\ 9 \overline{)8345} \\ \underline{-81} \\ 24 \\ \underline{18} \\ 65 \\ \underline{-63} \\ 2 \end{array}
 \end{array}$$

$927 \times 9 + 2 = 8345$
 Ans: Q = 927, R = 2

$$\begin{array}{r}
 20. \quad \begin{array}{r} 1901 \\ 3 \overline{)5701} \\ \underline{-3} \\ 27 \\ \underline{27} \\ 01 \end{array}
 \end{array}$$

$0 \times 0 + 0 = 0$
 Ans: Q = 0, R = 0

Exercise 6.12

1. total number of stamps = 96
 pastes of stamps = 6

$$\begin{array}{r}
 \begin{array}{r} 16 \\ 6 \overline{)96} \\ \underline{6} \\ 36 \\ \underline{36} \\ 0 \end{array}
 \end{array}$$

Number of stamps each album pastes = $96 \div 6$
 96 stamps got 16 albums.

2. total planted trees = 75
 equally rows of plants = 3

$$\begin{array}{r}
 \begin{array}{r} 25 \\ 3 \overline{)75} \\ \underline{6} \\ 15 \\ \underline{15} \\ 0 \end{array}
 \end{array}$$

each row gets 25 plants.

3. total number of money = 749

number of children = 7

number of many on each children = $749 \div 7$

$$\begin{array}{r}
 \begin{array}{r} 107 \\ 7 \overline{)749} \\ \underline{7} \\ 49 \\ \underline{49} \\ 0 \end{array}
 \end{array}$$

Each money on 7 children is 107.

4. Number of photos = 120

each number of packet = 9

equally number of photos packet = $120 \div 9$

$$\begin{array}{r}
 \begin{array}{r} 13 \\ 9 \overline{)120} \\ \underline{9} \\ 30 \\ \underline{27} \\ 3 \end{array}
 \end{array}$$

each number of packet 13 photos
 there was 3 photos were left.

5. total chairs were arrange = 405

each rows of host arrages = 5

chairs on each roars = $405 \div 5$

chairs in 5 rows is 81.

$$\begin{array}{r}
 \begin{array}{r} 81 \\ 5 \overline{)405} \\ \underline{40} \\ 5 \\ \underline{5} \\ 0 \end{array}
 \end{array}$$

6. total packet of bread = 5832

each kind of bread packets = 4

equally number of packets is = $5832 \div 4$

each kind of packet has 1458.

$$\begin{array}{r}
 \begin{array}{r} 145 \\ 4 \overline{)5832} \\ \underline{-4} \\ 18 \\ \underline{16} \\ 23 \\ \underline{-20} \\ 32 \\ \underline{-32} \\ 0 \end{array}
 \end{array}$$

7. total number of students = 9171

each number of clubs = 9

equally number of clubs = $9171 \div 9$

each club containers 1019.

$$\begin{array}{r}
 \begin{array}{r} 1019 \\ 9 \overline{)9171} \\ \underline{-9} \\ 17 \\ \underline{9} \\ 81 \\ \underline{-81} \\ 0 \end{array}
 \end{array}$$

8. total number of books = 8888

each number of child = 8

equally number of book = $8888 \div 8$

$$\begin{array}{r}
 \begin{array}{r} 1111 \\ 8 \overline{)8888} \\ \underline{-8} \\ 8 \\ \underline{8} \\ 08 \\ \underline{-8} \\ 08 \\ \underline{-8} \\ 0 \end{array}
 \end{array}$$

each number of book contains 8 students is 1111.

7. Fractions

Exercise 7.1

- A. 1, 4, 6, 7
B. Do yourself.
C. Do yourself.
D. Do yourself.

E. 1. $\frac{1}{2}$ 2. $\frac{1}{4}$ 3. $\frac{1}{3}$

Exercise 7.2

- A. Do yourself.

B. 1. $\frac{1}{2}$ 2. $\frac{1}{4}$ 3. $\frac{3}{4}$ 4. $\frac{1}{3}$
5. $\frac{1}{3}$ 6. $\frac{5}{8}$

Exercise 7.3

A. 1. $\frac{1}{2}$ of 18 2. $\frac{1}{2}$ of 22
 $18 \div 2 = 9$ $22 \div 2 = 11$

3. $\frac{1}{2}$ of 10
 $10 \div 2 = 5$

B. 1. $\frac{1}{3}$ of 12 2. $\frac{1}{3}$ of 6
 $12 \div 3 = 4$ $6 \div 3 = 2$

3. $\frac{1}{3}$ of 15
 $15 \div 3 = 5$

C. 1. $\frac{1}{4}$ of 8 2. $\frac{1}{4}$ of 16
 $8 \div 4 = 2$ $16 \div 4 = 4$

3. $\frac{1}{4}$ of 12
 $12 \div 4 = 3$

D. 1. $20 \div 2 = 10$ 2. $20 \div 4 = 5$
3. $18 \div 3 = 6$ 4. $30 \div 2 = 15$
5. $32 \div 4 = 8$ 6. $27 \div 3 = 9$
7. $16 \div 2 = 8$ 8. $40 \div 4 = 10$
9. $15 \div 3 = 5$

Exercise 7.4

1. total number of toffees = 25
number of she ate = 5
fraction of toffees = $25 \div 5 = 5$
 $= \frac{1}{5}$ Ans
2. total number of question = 10
number of done question = 7
fraction of the question = $\frac{7}{10}$ Ans
3. total number of marbles = 14
number of red marbles = 10
fraction of red marbles = $\frac{10}{14}$ Ans

4. total number of trees = 4
number of neen tree = 1
fraction of plant = $\frac{1}{4}$ Ans

5. total number of spent time = 6 hours
number of half time spent = $6 \div 2$
 $= 3$ hours

Meena spent in activities = 3 hours

6. total number of paper = 24
Nitin has read pages = 15
 $24 \div 15 = 9$
fraction of pages read is = $\frac{9}{24}$ Ans

8. Geometry

Exercise 8.1

1. Do yourself.
2. (a) 16 (b) 13

Exercise 8.2

1. (a) 'S' (b) 'S' (c) 'C' (d) 'C'
2. (a) (✓) (b) (✗) (c) (✗) (d) (✓)
3. no
4. Do yourself.

Exercise 8.3

1. (a) (✓) (b) (✓) (c) (✓) (d) (✓)
 (e) (✓) (f) (✓)
2. Do yourself.
3. (a) fish shape (b) kite shape

Exercise 8.4

1. (a) top (b) side (c) top (d) side

Exercise 8.5

1. (a) Cone (b) Sphere (c) Cuboid (d) Cube
2. (a) Cuboid (i) Book (ii) Cartoon box
 (b) Cube (i) Dice (ii) Box
 (c) Cylinder (i) Can (ii) Bottal
 (d) Sphere (i) Ball (ii) Moon
 (e) Cone (i) Ice cream cone (ii) Birthday cap
3. (a) two, (b) six, (c) cone, (d) sphere, (e) opposite

Exercise 8.6

1. Do yourself.
2. Do yourself.

Exercise 8.7

1. Do yourself.
2. (a) 11 (b) 9
3. (a) (✓) (b) (✓) (c) (✗) (d) (✗)

9. Measurement

Exercise 9.1

- (a) Metre (b) Metre (c) Metre
(d) Centimetre (e) Centimetre
(f) Centimetre

Exercise 9.2

1. (a) 6 cm (b) 7 cm

2. Do yourself.

Exercise 9.3

1. (a) 2 m = 2×10 dm = 20 dm (b) 43 m = 43×10 = 430 dm

(c) 4 m 2 dm
 $4 \text{ m } 2 \text{ dm} = 4 \times 10 \text{ dm} + 2 \text{ dm}$
 $= 40 \text{ dm} + 2 \text{ dm}$
 $= 42 \text{ dm}$

(d) 12 m 4 dm
 $12 \text{ m } 4 \text{ dm} = 12 \times 10 \text{ dm} + 4 \text{ dm}$
 $= 120 \text{ dm} + 4 \text{ dm}$
 $= 124 \text{ dm}$

(e) 89 m
 $89 \text{ m} = 89 \times 10 \text{ dm}$
 $= 890 \text{ dm}$

2. (a) 9 m
 $9 \text{ m} = 9 \times 100 \text{ cm}$
 $= 900 \text{ cm}$

(b) 36 dm
 $36 \text{ dm} = 36 \times 10 \text{ cm}$
 $= 360 \text{ cm}$

(c) 7 m 27 cm
 $7 \text{ m } 27 \text{ cm} = 7 \times 100 \text{ cm} + 27 \text{ cm}$
 $= 700 \text{ cm} + 27 \text{ cm}$
 $= 727 \text{ cm}$

(d) 4 m 19 cm
 $4 \text{ m } 19 \text{ cm} = 4 \times 100 \text{ cm} + 19 \text{ cm}$
 $= 400 \text{ cm} + 19 \text{ cm}$
 $= 419 \text{ cm}$

(e) 6 dm 2 cm
 $6 \text{ dm } 2 \text{ cm} = 6 \times 10 \text{ cm} + 2 \text{ cm}$
 $= 60 \text{ cm} + 2 \text{ cm}$
 $= 62 \text{ cm}$

(f) 8 m 20 cm
 $8 \text{ m } 20 \text{ cm} = 8 \times 100 \text{ cm} + 20 \text{ cm}$
 $= 800 \text{ cm} + 20 \text{ cm}$
 $= 820 \text{ cm}$

3. (a) 525 cm
 $525 \text{ cm} = 5 \text{ m } 25 \text{ cm}$

(b) 66 dm
 $66 \text{ dm} = 6 \text{ m } 6 \text{ dm}$

(c) 369 cm
 $369 \text{ cm} = 3 \text{ m } 69 \text{ cm}$

(d) 84 dm
 $84 \text{ dm} = 8 \text{ m } 4 \text{ dm}$

(e) 2121 cm
 $2121 \text{ cm} = 21 \text{ m } 21 \text{ cm}$

(f) 962 dm
 $962 \text{ dm} = 96 \text{ m } 2 \text{ dm}$

Exercise 9.4

1. (a) 7 (b) 4 (c) 6

Exercise 9.5

1. (a) 5 (b) 1 (c) 300 (d) 8

Exercise 9.6

1. (a) 8 kg
 $8 \text{ kg} = 8 \times 1000 \text{ g}$
 $= 8000 \text{ g}$

(b) 4 kg 900 g
 $4 \text{ kg } 900 \text{ g} = 4 \times 1000 \text{ g} + 900 \text{ g}$
 $= 4000 \text{ g} + 900 \text{ g}$
 $= 4900 \text{ g}$

(c) 3 kg
 $3 \text{ kg} = 3 \times 1000 \text{ g}$
 $= 3000 \text{ g}$

(d) 6 kg 666 g
 $6 \text{ kg } 666 \text{ g} = 6 \times 1000 \text{ g} + 666 \text{ g}$
 $= 6000 \text{ g} + 666 \text{ g}$
 $= 6666 \text{ g}$

(e) 7 kg
 $7 \text{ kg} = 7 \times 1000 \text{ g}$
 $= 7000 \text{ g}$

(f) 1 kg 23 g
 $1 \text{ kg } 23 \text{ g} = 1 \times 1000 \text{ g} + 23 \text{ g}$
 $= 1000 \text{ g} + 23 \text{ g}$
 $= 1023 \text{ g}$

2. (a) 2000 g
 $2000 \text{ g} = 2 \text{ kg}$

(b) 8000 g
 $8000 \text{ g} = 8 \text{ kg}$

(c) 9600 g
 $9600 \text{ g} = 9 \text{ kg } 600 \text{ g}$

(d) 8376 g
 $8376 \text{ g} = 8 \text{ kg } 376 \text{ g}$

(e) 2084 g
 $2084 \text{ g} = 2 \text{ kg } 84 \text{ g}$

(f) 5001 g
 $5001 \text{ g} = 5 \text{ kg } 1 \text{ g}$

3. (b) 400 g (c) 300 g (d) 800 g

4. (a) (✓) (b) (✓)

Exercise 9.7

1. (a) 7 L
 $7 \text{ L} = 7 \times 1000 \text{ ml}$
 $= 7000 \text{ ml}$

(b) 3 L 800 ml
 $3 \text{ L } 800 \text{ ml} = 3 \times 1000 \text{ ml} + 800 \text{ ml}$
 $= 3000 \text{ ml} + 800 \text{ ml}$
 $= 3800 \text{ ml}$

(c) 4 L
 $4 \text{ L} = 4 \times 1000 \text{ ml}$
 $= 4000 \text{ ml}$

(d) 9 L 47 ml
 $9 \text{ L } 47 \text{ ml} = 9 \times 1000 \text{ ml} + 47 \text{ ml}$
 $= 9000 \text{ ml} + 47 \text{ ml}$
 $= 9047 \text{ ml}$

(e) 5 L 345 ml
 $7 \text{ L } 345 \text{ ml} = 5 \times 1000 \text{ ml} + 345 \text{ ml}$
 $= 5000 \text{ ml} + 345 \text{ ml}$
 $= 5345 \text{ ml}$

(f) 1 L 2 ml
 $7 \text{ L } 2 \text{ ml} = 1 \times 1000 \text{ ml} + 2 \text{ ml}$
 $= 1000 \text{ ml} + 2 \text{ ml}$
 $= 1002 \text{ ml}$

2. (a) 4000 ml
 $4000 \text{ ml} = 4 \text{ L}$
 (b) 6000 ml
 $6000 \text{ ml} = 6 \text{ L}$
 (c) 8400 ml
 $8400 \text{ ml} = 8 \text{ L } 400 \text{ ml}$
 (d) 7654 ml
 $7654 \text{ ml} = 7 \text{ L } 654 \text{ ml}$
 (e) 3098 ml
 $3098 \text{ ml} = 3 \text{ L } 98 \text{ ml}$
 (f) 2001 ml
 $2001 \text{ ml} = 2 \text{ L } 1 \text{ ml}$
 3. (a) 400 ml (b) 400 ml (c) 300 ml
 (d) 1200 ml

Exercise 9.8

1. (a) 14 m 2 dm into dm
 $14 \text{ m } 2 \text{ dm} = 14 \times 10 \text{ dm} + 2 \text{ dm}$
 $= 140 \text{ dm} + 2 \text{ dm}$
 $= 142 \text{ dm}$
 (b) 28 dm into cm
 $28 \text{ dm} = 28 \times 10 \text{ cm}$
 $= 280 \text{ cm}$
 (c) 40 m 18 cm into cm
 $40 \text{ m } 18 \text{ cm} = 40 \times 100 \text{ cm} + 18 \text{ cm}$
 $= 4000 \text{ cm} + 18 \text{ cm}$
 $= 4018 \text{ cm}$
 (d) 825 dm into m
 $825 \text{ dm} = 82 \text{ m } 5 \text{ dm}$
 (e) 160 cm into m
 $160 \text{ cm} = 1 \text{ m } 60 \text{ cm}$
 (f) 3520 g into kg
 $3520 \text{ g} = 3 \text{ kg } 520 \text{ g}$
 (g) 7 kg 3 g into g
 $7 \text{ kg } 3 \text{ g} = 7 \times 1000 \text{ g} + 3 \text{ g}$
 $= 7000 \text{ g} + 3 \text{ g}$
 $= 7003 \text{ g}$

(h) 34 L into ml
 $34 \text{ L} = 34 \times 1000 \text{ ml}$
 $= 3400$

(i) 2501 ml into L
 $2501 \text{ ml} = 2 \text{ L } 501 \text{ ml}$

(j) 2 L 479 ml into ml
 $2 \text{ L } 479 \text{ ml} = 2 \times 1000 \text{ ml} + 479 \text{ ml}$
 $= 2000 \text{ ml} + 479 \text{ ml}$
 $= 2,479$

10. Money

Exercise 10.1

Do yourself.

Exercise 10.2

1. (a) Rupees sixteen and eight paise.
 (b) Rupees twenty-seven and ten paise.
 (c) Rupees one hundred five and forty five paise.
 (d) Rupees thirty four and sixty three paise.
 2. (a) ₹ 43.03 (b) ₹ 76.50
 (c) ₹ 12.25 (d) ₹ 1.09

Exercise 10.3

1. (a) 590 paise (b) 4545 paise
 (c) 19087 paise (d) 14534 paise
 2. (a) 5600 paise (b) 7865 paise
 (c) 18950 paise (d) 2314 paise
 3. (a) ₹ 6.78 (b) ₹ 75.12 (c) ₹ 34.89 (d) ₹ 1.45

Exercise 10.4

1. (a) ₹ 777 p 40 (b) ₹ 246 p 46
 (c) ₹ 923 p 55 (d) ₹ 2095 p 32
 2. (a)
$$\begin{array}{r} 1085.89 \\ + 172.58 \\ \hline 1258.47 \end{array}$$
 (b)
$$\begin{array}{r} 945.74 \\ + 25.90 \\ \hline 971.64 \end{array}$$

 (c)
$$\begin{array}{r} 572.00 \\ + 344.30 \\ \hline 916.30 \end{array}$$
 (d)
$$\begin{array}{r} 666.90 \\ + 555.60 \\ \hline 1222.50 \end{array}$$

 3. (a) 263.34 (b) 98.90
 (c) 1007.48 (d) 2.889.40
 4. (a)
$$\begin{array}{r} 7401.77 \\ - 6129.55 \\ \hline 1272.22 \end{array}$$
 (b)
$$\begin{array}{r} 854.32 \\ - 439.68 \\ \hline 414.64 \end{array}$$

 (c)
$$\begin{array}{r} 5530.99 \\ - 1863.98 \\ \hline 3667.01 \end{array}$$
 (d)
$$\begin{array}{r} 488.30 \\ - 351.20 \\ \hline 137.10 \end{array}$$

 5. (a) total money = ₹ 675.65
 spent money = ₹ 320.75
 money left with him = $675.65 - 320.75$
 $= 354.90$
 ₹ 354.90

- (b) Tanya's Money = ₹ 768.90
 Shweta's money = ₹ 1844.45
 total money is = 1844.45 + 768.90
 = ₹ 2613.35
 = ₹ 2613.35
- (c) Shreya spent money = ₹ 568.12
 Ananya spent money = ₹ 632.51
 total bill is = 568.12 + 632.51
 = ₹ 1200.63
 = ₹ 1200.63
- (d) total money = ₹ 6578.35
 spent money = ₹ 2300.67
 she spent money is = 6578.35 – 2300.67
 = ₹ 4277.68
 = ₹ 4277.68

Exercise 10.5

1. (a)
$$\begin{array}{r} 45.60 \\ \times 9 \\ \hline 410.40 \end{array}$$
 (b)
$$\begin{array}{r} 33.50 \\ \times 7 \\ \hline 234.50 \end{array}$$
- (c)
$$\begin{array}{r} 56 \\ \times 8 \\ \hline 448 \end{array}$$
 (d)
$$\begin{array}{r} 139.76 \\ \times 4 \\ \hline 559.04 \end{array}$$
- (e)
$$\begin{array}{r} 241.75 \\ \times 6 \\ \hline 1450.50 \end{array}$$
 (f)
$$\begin{array}{r} 641.30 \\ \times 7 \\ \hline 4489.10 \end{array}$$

2. total money = 340
 number of bought books = 5
 each book cost is =

$$\begin{array}{r} 68 \\ 5 \overline{)340} \\ \underline{30} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

Ans: 68 rupees

3. one page costs is = 2.50
 number of page costs =
- $$\begin{array}{r} 2.50 \\ \times 9 \\ \hline 22.50 \end{array}$$

9 photostate page cost is = 22.50

4. total money = 33.50
 total carton = 9
 carton cost is =
- $$\begin{array}{r} 33.50 \\ \times 9 \\ \hline 301.50 \end{array}$$

Ans: 9 carton cost is 301.50.

5. total money = 160
 number of oranges = 8
 number of each orange cost =

$$\begin{array}{r} 20 \\ 8 \overline{)160} \\ \underline{160} \\ 0 \end{array}$$

each 8 orange cost is = 20 rupees

11. Money

Exercise 11.1

1. Do yourself.
2. A. 7 : 23 B. 5 : 38 C. 1 : 02 D. 9 : 41
 E. 4 : 16 F. 8 : 15 G. 2 : 59 H. 12 : 34
 I. 11 : 37 J. 9 : 13 K. 3 : 51 L. 6 : 09

Exercise 11.2

3. Do yourself.
- (a) p.m. (b) a.m. (c) p.m. (d) p.m.
 (e) a.m.

Exercise 11.3

1. (a) 300 minutes (b) 720 minutes
 (c) 600 minutes (d) 960 minutes
2. (a) 96 hours (b) 216 hours
3. (a) Hours (b) Minutes
 (c) Minutes (d) Minutes

Exercise 11.4

- (a) 12 (b) 14 (c) 15 (d) Tuesday
 (e) 18 (f) 25 (g) 17 (h) Thursday
 (i) Thursday (j) 14

12. Date Handling

Exercise 12.1

1. (a) 6 postcards (b) postcards
 (c) 5 envelopes
 (d) Letters and Registered letters
2. (a) Dolls (b) 25 dolls
 (c) Aeroplane (d) 70 toys
3. (a) (i) Elephants 2; (ii) Monkeys 6
 (b) 15 animals (c) Monkeys
 (d) lions
4. (a) Hindi (b) 30 books
 (c) Science (d) 260 books
 (e) 70 books

13. Patterns

Exercise 13.1

Do yourself.

Exercise 13.2

Do yourself.

Exercise 13.3

1. (a) adding 1 3 4 5 6 7 8
 (b) adding 2 4 6 8 10 12 14
 (c) adding 3 1 4 7 10 13 16
 (d) adding 4 3 7 11 15 19 23
 (e) adding 5 5 10 15 20 25 30
 (f) adding 6 6 12 18 24 30 36

2. (a) adding = 3 (b) adding = 2
 (c) adding = 4 (d) adding = 8
 (e) adding = 5
3. (a) 10, 21, 32, 43, 54, 65
 (b) 101, 107, 113, 119, 125, 131
 (c) 21, 24, 27, 30, 33, 36
 (d) 1A, 2B, 3C, 4D, 5E, 6F

Exercise 13.4

1. (a) 87, 89, 91, 93, 95, 97, 99, 101 odd number patterns
 (b) 102, 104, 106, 108, 110, 112, 114, 116 even number patterns
 (c) 90, 92, 94, 96, 98, 100, 102, 104 even number patterns
 (d) 891, 893, 895, 897, 899, 901, 903, 905 odd number patterns

- (e) 330, 332, 334, 336, 338, 340, 342, 344 even number pattern

2. 344

3. Do yourself.

Exercise 13.5

- | | | | | | |
|-----|-----------|-----|-----------|-----|-----------|
| (a) | 43 | (b) | 82 | (c) | 47 |
| | 40 + 3 | | 80 + 2 | | 10 + 37 |
| | 20 + 23 | | 60 + 22 | | 20 + 27 |
| | 10 + 33 | | 40 + 42 | | 40 + 7 |
| | 30 + 13 | | 0 + 82 | | 30 + 17 |

Exercise 13.6

- (a) 252 (b) 260

Maths Book - 4

3. Addition

Exercise 3.1

1. (a)
$$\begin{array}{r} 432 \\ + 234 \\ \hline 666 \end{array}$$
 (b)
$$\begin{array}{r} 467 \\ + 901 \\ \hline 1368 \end{array}$$
 (c)
$$\begin{array}{r} 867 \\ + 540 \\ \hline 1407 \end{array}$$
 (d)
$$\begin{array}{r} 749 \\ + 851 \\ \hline 1600 \end{array}$$

(e)
$$\begin{array}{r} 5817 \\ + 9653 \\ \hline 15470 \end{array}$$
 (f)
$$\begin{array}{r} 6942 \\ + 7005 \\ \hline 15947 \end{array}$$
 (g)
$$\begin{array}{r} 9992 \\ + 5678 \\ \hline 15670 \end{array}$$
 (h)
$$\begin{array}{r} 2649 \\ + 7538 \\ \hline 10007 \end{array}$$

2. (a) 700 (b) 307 (c) 105 (d) 202
(e) 3000 (f) 1089 (g) 7000 (h) 1047

3. Number of car has travelled last year = 6500 km
Number of car has travelled this year = 7580 km

$$\begin{array}{r} 6500 \\ + 7580 \\ \hline 14080 \end{array}$$

total number of car has travelled = 14080.

4. Number of spent on petrol, hotel = 4000 + 8750
= 12750

Number of spend on food and shopping = 2900 + 6740

$$\begin{array}{r} 12750 \\ + 9640 \\ \hline 22390 \end{array}$$

total number of spent is = 22390.

5. Number of pine trees = 1100
Number of seal trees = 2034
and number of apple trees = 1700
total trees in the forest = 4834

Exercise 3.2

1. (a)
$$\begin{array}{r} 466539 \\ + 378945 \\ \hline 845484 \end{array}$$
 (b)
$$\begin{array}{r} 367987 \\ + 588639 \\ \hline 956625 \end{array}$$
 (c)
$$\begin{array}{r} 678944 \\ + 359467 \\ \hline 1038411 \end{array}$$

(d)
$$\begin{array}{r} 260876 \\ + 468437 \\ \hline 759312 \end{array}$$
 (e)
$$\begin{array}{r} 736284 \\ + 258638 \\ \hline 994922 \end{array}$$
 (f)
$$\begin{array}{r} 824356 \\ + 147838 \\ \hline 972194 \end{array}$$

2. (a)
$$\begin{array}{r} 56975 \\ + 28756 \\ \hline 85731 \end{array}$$
 (b)
$$\begin{array}{r} 54309 \\ + 32792 \\ \hline 87101 \end{array}$$
 (c)
$$\begin{array}{r} 59104 \\ + 38756 \\ \hline 97860 \end{array}$$

(d)
$$\begin{array}{r} 52983 \\ + 10587 \\ \hline 63570 \end{array}$$
 (e)
$$\begin{array}{r} 27393 \\ + 48907 \\ \hline 76300 \end{array}$$
 (f)
$$\begin{array}{r} 45678 \\ + 12796 \\ \hline 58474 \end{array}$$

3. Do yourself.

4. (a)
$$\begin{array}{r} 4365 \\ + 2793 \\ \hline 7158 \end{array}$$
 (b)
$$\begin{array}{r} 5639 \\ + 4311 \\ \hline 9950 \end{array}$$

Exercise 3.3

1. Number of passengers landed last year = 6,719
Number of passengers landed late = 3,363

$$\begin{array}{r} 6719 \\ + 3363 \\ \hline 10082 \end{array}$$

total passengers landed in airport = 10082

2. Number of diamonds = 4050
Number of rubies = 2123

$$\begin{array}{r} 4050 \\ + 2123 \\ \hline 6173 \end{array}$$

total gems in the box = 6173

3. Number of worker bees = 7678
Number of worker bees grown = 2184

$$\begin{array}{r} 7678 \\ + 2184 \\ \hline 9862 \end{array}$$

total number of worker bees = 9862

4. Number of sold mario = 1539
Number of sold contragames = 2572

$$\begin{array}{r} 1539 \\ + 2572 \\ \hline 4111 \end{array}$$

total sold games = 4011

5. Number of peanut butter = 6234
Number of crunchy peanut butter = 3073

$$\begin{array}{r} 6234 \\ + 3073 \\ \hline 9307 \end{array}$$

total number of butter = 9307 grams

6. Number of gallons blue paint = 3319
Number of gallons white paint = 2928

$$\begin{array}{r} 3319 \\ + 2928 \\ \hline 6247 \end{array}$$

total gallons of paint company use = 6247

7. Number of small bottles = 3119
Number of large bottles = 2609

$$\begin{array}{r} 3119 \\ + 2609 \\ \hline 5728 \end{array}$$

total number of bottles plant produced = 5728

8. Number of sold tickets in Monday = 1591
Number of sold tickets in Tuesday = 2113

$$\begin{array}{r} 1591 \\ + 2113 \\ \hline 3704 \end{array}$$

total number of tickets zoo sell = 3704

9. Number of stock comic books = 4098
Number of bought comic book = 3000

$$\begin{array}{r} 4098 \\ + 3000 \\ \hline 7098 \end{array}$$

total number of comic books store = 7098

10. Number of sand stone = 4329
Number of granite stone = 5239

$$\begin{array}{r} 4329 \\ + 5239 \\ \hline 9568 \end{array}$$

total number of stone required = 9568

Exercise 3.4

1. (a) Red stone of weight = 45 kg
 Blue stone of weight = $\frac{+67}{112}$ kg

total weight of both = 112 kg

- (b) Number of travelled one city = 23 km
 Number of travelled second city = $\frac{+56}{79}$ km

total number of distance = 79 km

- (c) Number of Rita used white ribbon = 87 cm
 Number of Anita used red ribbon = $\frac{+48}{135}$ cm

total number of length of the ribbon used = 135 cm.

- (d) Number of travelled to Karnal by car = 29 km
 Number of travelled to panipat by bus = $\frac{+61}{90}$ km

total number of travelled altogether = 90 km.

2. Do yourself.

3. Do yourself.

Exercise 3.5

1. (a) Actual total = $89 + 12 = 101$
 Estimate total = $89 + 12$
 = $90 + 10 = 100$ Ans
- (b) Actual total = $76 + 24 = 100$
 Estimate total = $76 + 24$
 = $80 + 20 = 100$ Ans
- (c) Actual total = $66 + 24 = 90$
 Estimate total = $64 + 24$
 = $70 + 20 = 90$ Ans
- (d) Actual total = $52 + 53 = 105$
 Estimate total = $52 + 53$
 = $50 + 50 = 100$ Ans
2. (a) Actual total = $314 + 428 = 742$
 Estimate total = $314 + 428$
 = $400 + 400 = 800$ Ans
- (b) Actual total = $364 + 278$
 Estimate total = $400 + 300$
 = 700 Ans
- (c) Actual total = $278 + 367 = 645$
 Estimate total = $278 + 367$
 = $300 + 400 = 700$ Ans
- (d) Actual total = $259 + 145 = 404$
 Estimate total = $259 + 145$
 = $300 + 100 = 400$ Ans
3. (a) Actual total = $3245 + 4536 = 7781$
 Estimate total = $3245 + 4536$
 = $3000 + 5000 = 8000$ Ans
- (b) Actual total = $2873 + 1289 = 4162$
 Estimate total = $2873 + 1289$
 = $30000 + 20000 = 50000$ Ans
- (c) Actual total = $3865 + 8119 = 11984$

- Estimate total = $3865 + 8119$
 = $4000 + 8000 = 12000$ Ans
- (d) Actual total = $7762 + 4723 = 12485$
 Estimate total = $7762 + 4723$
 = $8000 + 5000 = 13000$ Ans

Exercise 3.6

1. (a) $\begin{array}{r} 1111 \\ 649834 \\ + 258748 \\ \hline 908582 \end{array}$ (b) $\begin{array}{r} 11 \\ 530084 \\ + 235739 \\ \hline 765823 \end{array}$
2. (a) $\begin{array}{r} 111 \\ 32972 \\ + 47892 \\ \hline 80864 \end{array}$ (b) $\begin{array}{r} 11 \\ 40485 \\ + 57378 \\ \hline 97863 \end{array}$
3. Largest 6 digit number = 999999
 and smallest 5 digit number = 11111
- $$\begin{array}{r} 999999 \\ + 11111 \\ \hline 1011110 \end{array}$$
4. $\begin{array}{r} 11 \\ 565321 \\ + 439407 \\ \hline 1004728 \end{array}$

5. Do yourself.

6. Do yourself.

7. Do yourself.

8. Do yourself.

9. (a) Number of An aeroplane flew = 4257 km
 Number of another aeroplane flew = $\frac{+2012}{6269}$ km

total number of aeroplane fly = 6269 km

- (b) Number of spent on transport = 2050 ₹
 Number of spent on food = 4150 ₹
 and number of spent on shopping = $\frac{+1500}{7700}$ ₹

total number of holiday cost = 7700

- (c) Number of mixed butter = 180 gm
 and number of sugar = 213 gm
 number of added flour = $\frac{+380}{773}$ gm

total weight of the cake = 773 gm

4. Subtraction

Exercise 4.1

1. (a) 2402 (b) 2241 (c) 3114 (d) 4100
 2. (a) 3742 (b) 2743 (c) 871 (d) 1260
 (e) 2746 (f) 2819
3. Number of distance between Delhi to Chandigarh = 334 km
 Number of Mohan travelled Delhi by bus = 184 km

$$\begin{array}{r} 334 \\ - 184 \\ \hline 150 \text{ km} \end{array}$$

Mohan is left to reach Chandigarh in 150 km.

4. Number of workers in a factory = 2379
 Number of female workers = 1324

$$\begin{array}{r} 2379 \\ -1324 \\ \hline 1055 \end{array}$$

Number of male workers in the factory = 1055.

5.

Exercise 3.2

1. (a) $\begin{array}{r} 834567 \\ -552476 \\ \hline 282091 \end{array}$ (b) $\begin{array}{r} 682341 \\ -373429 \\ \hline 308912 \end{array}$ (c) $\begin{array}{r} 572454 \\ -291367 \\ \hline 281087 \end{array}$

(d) $\begin{array}{r} 300886 \\ -268437 \\ \hline 32449 \end{array}$ (e) $\begin{array}{r} 794184 \\ -534969 \\ \hline 259215 \end{array}$ (f) $\begin{array}{r} 894356 \\ -607868 \\ \hline 286488 \end{array}$

2. (a) $\begin{array}{r} 36954 \\ -19765 \\ \hline 17199 \end{array}$ (b) $\begin{array}{r} 56908 \\ -43095 \\ \hline 13813 \end{array}$ (c) $\begin{array}{r} 49320 \\ -7896 \\ \hline 21424 \end{array}$

(d) $\begin{array}{r} 75263 \\ -15857 \\ \hline 59406 \end{array}$ (e) $\begin{array}{r} 77343 \\ -46750 \\ \hline 30593 \end{array}$ (f) $\begin{array}{r} 69912 \\ -50099 \\ \hline 19823 \end{array}$

(g) $\begin{array}{r} 96321 \\ -08943 \\ \hline 88378 \end{array}$ (h) $\begin{array}{r} 93937 \\ -46769 \\ \hline 57268 \end{array}$

3. largest 6 digit = 999999
 smallest 6 = 111111

$$\begin{array}{r} 999999 \\ -100000 \\ \hline 899999 \end{array}$$

4. $\begin{array}{r} 15553 \\ -7256 \\ \hline 8297 \end{array}$ 5. $\begin{array}{r} 813969 \\ -724563 \\ \hline 89406 \end{array}$ 6. $\begin{array}{r} 3938 \\ -2020 \\ \hline 1918 \end{array}$

Exercise 4.3

1. Number of buys a box marbles = 150
 and number of 38 red, 51 blue and 40 yellow marbles.
 $38 + 51 + 40 = 129$

Number of marbles are left in the box = 150

$$\begin{array}{r} 150 \\ -129 \\ \hline 21 \end{array}$$

21 marbles.

2. Number of shaline purchased a safe set and a dinning table = 82,000
 Number of dinning table costs = 32780

$$\begin{array}{r} 82000 \\ -32780 \\ \hline 49220 \end{array}$$

The cost of the safe set = 49220.

3. Number of a DVD costs = 19450
 and number of TV costs = 41348
 $19450 - 41348 = 21898$
 Number of difference between their costs = 21898.

4. Number of Mrs Kapoor has = 1,2500
 Number of bought a gold chair = 68568
 $12500 - 68568 = 56432$
 Number of money now is = 56432 money.

5. Number of chander vots = 5997
 $6598 - 5997 = 601$
 Number of difference between their vots = 601

6. Number of microwave oven bought = 33785
 Number of she got discount = 5672
 $33785 - 5672$
 Number of she spend = 28113

7. $\begin{array}{r} 7432 \\ -5002 \\ \hline 2430 \end{array}$ 8. $\begin{array}{r} 55239 \\ -29687 \\ \hline 25552 \end{array}$ 9. $\begin{array}{r} 685609 \\ -91564 \\ \hline 594045 \end{array}$

10. $\begin{array}{r} 341209 \\ -10009 \\ \hline 331200 \end{array}$

Exercise 4.4

1. Do yourself.
2. Do yourself.
3. Do yourself.

Exercise 4.5

(a) Actual difference = $579 - 445 = 134$

Estimate difference = $580 - 450 = 130$

Difference is approximately = $134 - 130 = 4$

(b) Actual difference = $995 - 655 = 340$

Estimate difference = $1000 - 700 = 300$

Difference is approximately = $340 - 300 = 40$

(c) Actual difference = $4455 - 2550 = 1905$

Estimate difference = $4000 - 3000 = 1000$

Difference is approximately = $1905 - 1000 = 905$

(d) Actual difference = $7970 - 6423 = 1547$

Estimate difference = $8000 - 6000 = 2000$

Difference is approximately = $1547 - 2000 = 453$

$$\begin{aligned} \text{(e) Actual difference} &= 44678 - 29125 \\ &= 15553 \\ \text{Estimate difference} &= 40000 - 3000 \\ &= 1000 \\ \text{Difference is approximately} &= 15553 - 10000 \\ &= 5553 \end{aligned}$$

Exercise 4.6 (Revision Exercise)

1. (a) subtraction, (b) minuend, (c) subtrahend, (d) number itself, (e) hundred, (f) 0

2. Number of red balls = 10752

Number of blue balls = 8967

$$10752 - 8967 = 1785$$

Number of red balls is = 1785 balls.

$$\begin{array}{r} 3. \quad 9999999 \\ - \quad 999999 \\ \hline 9000000 \end{array} \qquad \begin{array}{r} 4. \quad 834567 \\ - \quad 282091 \\ \hline 552476 \end{array}$$

5. Number of purchased computer and computer table = 65172

Number of cost of computer tables = 12942

$$65172 - 12942 = 52230$$

Number of cost of computer is = 52230

6. Number of his bank account = 1256850

Number of purchased LCD TV and bed costing

$$= 57750 + 37500 = 95250$$

$$1256850 - 95250 = 1,161,600$$

Number of left in Mr. Abhishek bank account is 1,161,600 money.

7. Number of picks up potatoes = 9750 kg

Number of more adds potatoes on Tuesday = 8275 kg

Number of wednesday he sells potatoes = 7580 kg

$$8275 + 7580 = 15855$$

Number of potato is still left in his godown =

$$15855 - 9750 = 6105$$

5. Multiplication

Exercise 5.1

$$\begin{aligned} \text{(a) } 115 \times 7 &= (100 + 10 + 5) \times 5 \\ &= (100 \times 5) + (10 \times 5) + (5 \times 5) \\ &= 500 + 50 + 25 \\ &= 575 \end{aligned}$$

$$\begin{aligned} \text{(b) } 213 \times 6 &= (200 + 10 + 3) \times 6 \\ &= (200 \times 6) + (10 \times 6) + (3 \times 6) \\ &= 1200 + 60 + 18 \\ &= 1278 \end{aligned}$$

$$\begin{aligned} \text{(c) } 405 \times 7 &= (400 + 0 + 5) \times 7 \\ &= (400 \times 7) + (0 \times 7) + (5 \times 7) \\ &= 2800 + 0 + 35 \\ &= 2835 \end{aligned}$$

$$\begin{aligned} \text{(d) } 812 \times 8 &= (800 + 10 + 2) \times 8 \\ &= (800 \times 8) + (10 \times 8) + (2 \times 8) \\ &= 6400 + 80 + 16 \\ &= 6496 \end{aligned}$$

$$\begin{aligned} \text{(e) } 376 \times 9 &= (300 + 70 + 6) \times 9 \\ &= (300 \times 9) + (70 \times 9) + (6 \times 9) \\ &= 2700 + 630 + 54 \\ &= 3384 \end{aligned}$$

$$\begin{aligned} \text{(f) } 424 \times 7 &= (400 + 20 + 4) \times 7 \\ &= (400 \times 7) + (20 \times 7) + (4 \times 7) \\ &= 2800 + 140 + 28 \\ &= 2968 \end{aligned}$$

$$\begin{aligned} \text{(g) } 872 \times 5 &= (800 + 70 + 2) \times 5 \\ &= (800 \times 5) + (70 \times 5) + (2 \times 5) \\ &= 4000 + 350 + 10 \\ &= 4360 \end{aligned}$$

$$\begin{aligned} \text{(h) } 982 \times 6 &= (900 + 80 + 2) \times 6 \\ &= (900 \times 6) + (80 \times 6) + (2 \times 6) \\ &= 5400 + 480 + 12 \\ &= 5892 \end{aligned}$$

$$\begin{aligned} \text{(i) } 416 \times 8 &= (400 + 10 + 6) \times 8 \\ &= (400 \times 8) + (10 \times 8) + (6 \times 8) \\ &= 3200 + 80 + 48 \\ &= 3328 \end{aligned}$$

$$\begin{aligned} \text{(j) } 848 \times 5 &= (800 + 40 + 8) \times 5 \\ &= (800 \times 5) + (40 \times 5) + (8 \times 5) \\ &= 4000 + 200 + 40 \\ &= 4240 \end{aligned}$$

$$\begin{aligned} \text{(k) } 375 \times 8 &= (300 + 70 + 5) \times 8 \\ &= (300 \times 8) + (70 \times 8) + (5 \times 8) \\ &= 2400 + 560 + 40 \\ &= 3000 \end{aligned}$$

$$\begin{aligned} \text{(l) } 299 \times 7 &= (200 + 90 + 9) \times 7 \\ &= (200 \times 7) + (90 \times 7) + (9 \times 7) \\ &= 1400 + 630 + 63 \\ &= 2093 \end{aligned}$$

$$\begin{aligned} \text{(m) } 245 \times 3 &= (200 + 40 + 5) \times 3 \\ &= (200 \times 3) + (40 \times 3) + (5 \times 3) \\ &= 600 + 120 + 15 \\ &= 735 \end{aligned}$$

$$\begin{aligned} \text{(n) } 178 \times 6 &= (100 + 70 + 8) \times 6 \\ &= (100 \times 6) + (70 \times 6) + (8 \times 6) \\ &= 600 + 420 + 36 \\ &= 1056 \end{aligned}$$

$$\begin{aligned} \text{(o) } 975 \times 2 &= (900 + 70 + 5) \times 2 \\ &= (900 \times 2) + (70 \times 2) + (5 \times 2) \\ &= 1800 + 140 + 10 \\ &= 1950 \end{aligned}$$

$$\begin{aligned} \text{(p) } 314 \times 2 &= (300 + 10 + 4) \times 2 \\ &= (300 \times 2) + (10 \times 2) + (4 \times 2) \\ &= 600 + 20 + 8 \\ &= 628 \end{aligned}$$

$$\begin{aligned} \text{(q) } 148 \times 7 &= (100 + 40 + 8) \times 7 \\ &= (100 \times 7) + (40 \times 7) + (8 \times 7) \\ &= 700 + 280 + 56 \\ &= 1036 \end{aligned}$$

$$\begin{aligned}
 \text{(r)} \quad 107 \times 8 &= (100 + 0 + 7) \times 8 \\
 &= (100 \times 8) + (0 \times 8) + (7 \times 8) \\
 &= 8100 + 0 + 81 \\
 &= 8181 \\
 \text{(s)} \quad 909 \times 9 &= (900 + 0 + 9) \times 9 \\
 &= (900 \times 9) + (0 \times 9) + (9 \times 9) \\
 &= 8100 + 0 + 81 \\
 &= 8181 \\
 \text{(t)} \quad 812 \times 6 &= (800 + 10 + 2) \times 6 \\
 &= (800 \times 6) + (10 \times 6) + (2 \times 6) \\
 &= 4800 + 60 + 12 \\
 &= 4872
 \end{aligned}$$

$$\begin{aligned}
 &= 18000 + 63 \\
 &= 18063 \\
 \text{(k)} \quad 4235 \times 9 &= (4200 + 30 + 5) \times 9 \\
 &= (4200 \times 9) + (30 \times 9) + (5 \times 9) \\
 &= 37800 + 270 + 45 \\
 &= 38115 \\
 \text{(l)} \quad 2192 \times 9 &= (2100 + 90 + 2) \times 9 \\
 &= (2100 \times 9) + (90 \times 9) + (2 \times 9) \\
 &= 18,900 + 810 + 18 \\
 &= 19,728 \\
 \text{(m)} \quad 1536 \times 7 &= (1500 + 30 + 6) \times 7 \\
 &= (1500 \times 7) + (30 \times 7) + (6 \times 7) \\
 &= 10500 + 210 + 42 \\
 &= 10752
 \end{aligned}$$

Exercise 5.2

$$\begin{aligned}
 \text{(a)} \quad 1132 \times 4 &= (1100 + 30 + 2) \times 4 \\
 &= (1100 \times 4) + (30 \times 4) + (2 \times 4) \\
 &= 4400 + 120 + 8 \\
 &= 4528 \\
 \text{(b)} \quad 1235 \times 5 &= (1200 + 30 + 5) \times 5 \\
 &= (1200 \times 5) + (30 \times 5) + (5 \times 5) \\
 &= 6000 + 150 + 25 \\
 &= 6175 \\
 \text{(c)} \quad 1150 \times 3 &= (1100 + 50) \times 3 \\
 &= (1100 \times 3) + (50 \times 3) \\
 &= 3300 + 150 \\
 &= 3450 \\
 \text{(d)} \quad 2275 \times 5 &= (2200 + 70 + 5) \times 5 \\
 &= (2200 \times 5) + (70 \times 5) + (5 \times 5) \\
 &= 1100 + 350 + 25 \\
 &= 11375 \\
 \text{(e)} \quad 1382 \times 3 &= (1300 + 80 + 2) \times 3 \\
 &= (1300 \times 3) + (80 \times 3) + (2 \times 3) \\
 &= 3900 + 280 + 6 \\
 &= 4186 \\
 \text{(f)} \quad 4132 \times 2 &= (4100 + 30 + 2) \times 2 \\
 &= (4100 \times 2) + (30 \times 2) + (2 \times 2) \\
 &= 8200 + 60 + 4 \\
 &= 8264 \\
 \text{(g)} \quad 1375 \times 8 &= (1300 + 70 + 5) \times 8 \\
 &= (1300 \times 8) + (70 \times 8) + (5 \times 8) \\
 &= 10400 + 560 + 40 \\
 &= 11,000 \\
 \text{(h)} \quad 1925 \times 6 &= (1900 + 20 + 5) \times 6 \\
 &= (1900 \times 6) + (20 \times 6) + (5 \times 6) \\
 &= 11,400 + 120 + 30 \\
 &= 11550 \\
 \text{(i)} \quad 4105 \times 8 &= (4100 + 0 + 5) \times 8 \\
 &= (4100 \times 8) + (0 \times 8) + (5 \times 8) \\
 &= 32,800 + 0 + 40 \\
 &= 32840 \\
 \text{(j)} \quad 2007 \times 9 &= (2000 + 7) \times 9 \\
 &= (2000 \times 9) + (7 \times 9)
 \end{aligned}$$

$$\begin{aligned}
 \text{(n)} \quad 8700 \times 8 &= (8000 + 700) \times 8 \\
 &= (8000 \times 8) + (700 \times 8) \\
 &= 64000 + 5600 \\
 &= 69600 \\
 \text{(o)} \quad 3106 \times 2 &= (3100 + 6) \times 2 \\
 &= (3100 \times 2) + (6 \times 2) \\
 &= 6200 + 12 \\
 &= 6212 \\
 \text{(p)} \quad 4129 \times 8 &= (4100 + 20 + 9) \times 8 \\
 &= (4100 \times 8) + (20 \times 8) + (9 \times 8) \\
 &= 32,800 + 160 + 72 \\
 &= 33032 \\
 \text{(q)} \quad 4432 \times 6 &= (4400 + 30 + 2) \times 6 \\
 &= (4400 \times 6) + (30 \times 6) + (2 \times 6) \\
 &= 26400 + 180 + 12 \\
 &= 26592 \\
 \text{(r)} \quad 5102 \times 7 &= (5100 + 2) \times 7 \\
 &= (5100 \times 7) + (2 \times 7) \\
 &= 35700 + 14 \\
 &= 35714 \\
 \text{(s)} \quad 2197 \times 6 &= (2100 + 90 + 7) \times 6 \\
 &= (2100 \times 6) + (90 \times 6) + (7 \times 6) \\
 &= 12600 + 540 + 42 \\
 &= 13,182 \\
 \text{(t)} \quad 8184 \times 3 &= (8100 + 80 + 4) \times 3 \\
 &= (8100 \times 3) + (80 \times 3) + (4 \times 3) \\
 &= 24300 + 240 + 12 \\
 &= 24,552
 \end{aligned}$$

Exercise 5.3

$$\begin{array}{cccc}
 \text{(a)} & \begin{array}{r} 33 \\ \times 3 \\ \hline 99 \end{array} & \text{(b)} & \begin{array}{r} 41 \\ \times 4 \\ \hline 164 \end{array} & \text{(c)} & \begin{array}{r} 13 \\ \times 2 \\ \hline 26 \end{array} & \text{(d)} & \begin{array}{r} 23 \\ \times 2 \\ \hline 46 \end{array} \\
 \text{(e)} & \begin{array}{r} 43 \\ \times 3 \\ \hline 129 \end{array} & \text{(f)} & \begin{array}{r} 212 \\ \times 2 \\ \hline 424 \end{array} & \text{(g)} & \begin{array}{r} 303 \\ \times 3 \\ \hline 909 \end{array} & \text{(h)} & \begin{array}{r} 423 \\ \times 2 \\ \hline 846 \end{array}
 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad 612 \\ \times 3 \\ \hline 1836 \end{array}$$

$$\begin{array}{r} \text{(j)} \quad 703 \\ \times 2 \\ \hline 1406 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad 513 \\ \times 2 \\ \hline 1026 \end{array}$$

$$\begin{array}{r} \text{(l)} \quad 712 \\ \times 3 \\ \hline 2136 \end{array}$$

$$\begin{array}{r} \text{(m)} \quad 402 \\ \times 3 \\ \hline 1206 \end{array}$$

$$\begin{array}{r} \text{(n)} \quad 322 \\ \times 4 \\ \hline 1288 \end{array}$$

$$\begin{array}{r} \text{(o)} \quad 624 \\ \times 3 \\ \hline 1872 \end{array}$$

$$\begin{array}{r} \text{(p)} \quad 223 \\ \times 4 \\ \hline 892 \end{array}$$

$$\begin{array}{r} \text{(q)} \quad 338 \\ \times 5 \\ \hline 1690 \end{array}$$

$$\begin{array}{r} \text{(r)} \quad 229 \\ \times 4 \\ \hline 916 \end{array}$$

$$\begin{array}{r} \text{(s)} \quad 409 \\ \times 5 \\ \hline 2048 \end{array}$$

$$\begin{array}{r} \text{(t)} \quad 723 \\ \times 9 \\ \hline 6507 \end{array}$$

Exercise 5.4

$$\begin{array}{r} \text{1. (a)} \quad 1243 \\ \times 2 \\ \hline 2486 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 2223 \\ \times 3 \\ \hline 6669 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 1230 \\ \times 3 \\ \hline 3690 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 2121 \\ \times 4 \\ \hline 8484 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 2102 \\ \times 3 \\ \hline 6306 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 4241 \\ \times 2 \\ \hline 8482 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 3102 \\ \times 3 \\ \hline 9306 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad 4222 \\ \times 2 \\ \hline 8444 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad 1236 \\ \times 8 \\ \hline 9888 \end{array}$$

$$\begin{array}{r} \text{(j)} \quad 2248 \\ \times 4 \\ \hline 8992 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad 9749 \\ \times 5 \\ \hline 48745 \end{array}$$

$$\begin{array}{r} \text{(l)} \quad 2369 \\ \times 3 \\ \hline 7107 \end{array}$$

$$\begin{array}{r} \text{(m)} \quad 4005 \\ \times 7 \\ \hline 28035 \end{array}$$

$$\begin{array}{r} \text{(n)} \quad 3552 \\ \times 6 \\ \hline 21312 \end{array}$$

$$\begin{array}{r} \text{(o)} \quad 4187 \\ \times 9 \\ \hline 37683 \end{array}$$

$$\begin{array}{r} \text{(p)} \quad 5578 \\ \times 8 \\ \hline 44624 \end{array}$$

$$\begin{array}{r} \text{2. (a)} \quad 736 \\ \times 5 \\ \hline 3680 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 448 \\ \times 3 \\ \hline 1344 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 507 \\ \times 6 \\ \hline 3042 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 445 \\ \times 6 \\ \hline 2670 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 1214 \\ \times 2 \\ \hline 2428 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 1734 \\ \times 3 \\ \hline 5202 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 2832 \\ \times 5 \\ \hline 14160 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad 2673 \\ \times 5 \\ \hline 13365 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad 2215 \\ \times 4 \\ \hline 8860 \end{array}$$

$$\begin{array}{r} \text{(j)} \quad 1267 \\ \times 7 \\ \hline 8869 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad 2184 \\ \times 9 \\ \hline 19656 \end{array}$$

$$\begin{array}{r} \text{(l)} \quad 7753 \\ \times 5 \\ \hline 38765 \end{array}$$

$$\begin{array}{r} \text{(m)} \quad 7608 \\ \times 9 \\ \hline 68472 \end{array}$$

$$\begin{array}{r} \text{(n)} \quad 629 \\ \times 9 \\ \hline 5589 \end{array}$$

$$\begin{array}{r} \text{(o)} \quad 7205 \\ \times 3 \\ \hline 21615 \end{array}$$

$$\begin{array}{r} \text{(p)} \quad 8064 \\ \times 5 \\ \hline 40320 \end{array}$$

Exercise 5.5

$$\begin{aligned} \text{(a)} \quad 31 \times 40 &= 31 \times (4 \times 10) \\ &= (31 \times 4) \times 10 \\ &= 124 \times 10 \\ &= 1240 \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad 112 \times 10 &= 112 \times (1 \times 10) \\ &= (112 \times 1) \times 10 \\ &= 112 \times 10 \\ &= 1120 \end{aligned}$$

$$\text{(c)} \quad 317 \times 80 = 317 \times (8 \times 10)$$

$$\begin{aligned} &= (317 \times 8) \times 10 \\ &= 2536 \times 10 \\ &= 25360 \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad 102 \times 50 &= 102 \times (5 \times 10) \\ &= (102 \times 5) \times 10 \\ &= 510 \times 10 \\ &= 5100 \end{aligned}$$

$$\begin{aligned} \text{(e)} \quad 171 \times 30 &= 171 \times (3 \times 10) \\ &= (171 \times 3) \times 10 \\ &= 513 \times 10 \\ &= 5130 \end{aligned}$$

$$\begin{aligned} \text{(f)} \quad 380 \times 70 &= 380 \times (7 \times 10) \\ &= (380 \times 7) \times 10 \\ &= 2660 \times 10 \\ &= 26600 \end{aligned}$$

$$\begin{aligned} \text{(g)} \quad 802 \times 30 &= 802 \times (3 \times 10) \\ &= (802 \times 3) \times 10 \\ &= 2406 \times 10 \\ &= 24060 \end{aligned}$$

$$\begin{aligned} \text{(h)} \quad 212 \times 60 &= 212 \times (6 \times 10) \\ &= (212 \times 6) \times 10 \\ &= 1272 \times 10 \\ &= 12720 \end{aligned}$$

$$\begin{aligned} \text{(i)} \quad 430 \times 20 &= 430 \times (2 \times 10) \\ &= (430 \times 2) \times 10 \\ &= 860 \times 10 \\ &= 8600 \end{aligned}$$

$$\begin{aligned} \text{(j)} \quad 503 \times 30 &= 503 \times (3 \times 10) \\ &= (503 \times 3) \times 10 \\ &= 1509 \times 10 \\ &= 15090 \end{aligned}$$

$$\begin{aligned} \text{(k)} \quad 312 \times 20 &= 312 \times (2 \times 10) \\ &= (312 \times 2) \times 10 \\ &= 624 \times 10 \\ &= 6240 \end{aligned}$$

$$\begin{aligned} \text{(l)} \quad 418 \times 40 &= 418 \times (4 \times 10) \\ &= (418 \times 4) \times 10 \\ &= 1672 \times 10 \\ &= 16720 \end{aligned}$$

$$\begin{aligned} \text{(m)} \quad 275 \times 80 &= 275 \times (8 \times 10) \\ &= (275 \times 8) \times 10 \\ &= 2200 \times 10 \\ &= 22000 \end{aligned}$$

$$\begin{aligned} \text{(n)} \quad 710 \times 50 &= 710 \times (5 \times 10) \\ &= (710 \times 5) \times 10 \\ &= 3550 \times 10 \\ &= 35500 \end{aligned}$$

$$\begin{aligned} \text{(o)} \quad 172 \times 40 &= 172 \times (4 \times 10) \\ &= (172 \times 4) \times 10 \\ &= 688 \times 10 \\ &= 6880 \end{aligned}$$

$$\begin{aligned} \text{(p)} \quad 319 \times 60 &= 319 \times (6 \times 10) \\ &= (319 \times 6) \times 10 \\ &= 1914 \times 10 \\ &= 19140 \end{aligned}$$

$$\begin{aligned} \text{(q)} \quad 354 \times 10 &= 354 \times (1 \times 10) \\ &= (354 \times 1) \times 10 \\ &= 354 \times 10 \\ &= 3540 \end{aligned}$$

$$\begin{aligned} \text{(r)} \quad 802 \times 90 &= 802 \times (9 \times 10) \\ &= (802 \times 9) \times 10 \\ &= 7218 \times 10 \\ &= 72180 \end{aligned}$$

$$\begin{aligned} \text{(s)} \quad 313 \times 60 &= 313 \times (6 \times 10) \\ &= (313 \times 6) \times 10 \\ &= 1878 \times 10 \\ &= 18780 \end{aligned}$$

$$\begin{aligned} \text{(t)} \quad 215 \times 70 &= 215 \times (7 \times 10) \\ &= (215 \times 7) \times 10 \\ &= 1505 \times 10 \\ &= 15050 \end{aligned}$$

Exercise 5.6

$$\begin{array}{r} \text{1. (a)} \quad \begin{array}{r} 38 \\ \times 15 \\ \hline 195 \\ 380 \\ \hline 575 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} 95 \\ \times 16 \\ \hline 570 \\ 950 \\ \hline 1520 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} 29 \\ \times 29 \\ \hline 261 \\ 580 \\ \hline 841 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} 77 \\ \times 45 \\ \hline 385 \\ 3080 \\ \hline 3465 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} 35 \\ \times 43 \\ \hline 105 \\ 1400 \\ \hline 1505 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} 48 \\ \times 72 \\ \hline 96 \\ 3360 \\ \hline 3456 \end{array} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} 82 \\ \times 29 \\ \hline 738 \\ 1640 \\ \hline 2378 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} 93 \\ \times 35 \\ \hline 465 \\ 2790 \\ \hline 3255 \end{array} \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{r} 315 \\ \times 12 \\ \hline 630 \\ 3150 \\ \hline 3780 \end{array} \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \begin{array}{r} 278 \\ \times 35 \\ \hline 1390 \\ 8340 \\ \hline 9730 \end{array} \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \begin{array}{r} 402 \\ \times 46 \\ \hline 2412 \\ 16080 \\ \hline 18492 \end{array} \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \begin{array}{r} 275 \\ \times 58 \\ \hline 2200 \\ 13750 \\ \hline 15950 \end{array} \end{array}$$

$$\begin{array}{r} \text{(m)} \quad \begin{array}{r} 350 \\ \times 52 \\ \hline 700 \\ 17500 \\ \hline 18200 \end{array} \end{array}$$

$$\begin{array}{r} \text{(n)} \quad \begin{array}{r} 430 \\ \times 69 \\ \hline 3870 \\ 25800 \\ \hline 29670 \end{array} \end{array}$$

$$\begin{array}{r} \text{(o)} \quad \begin{array}{r} 882 \\ \times 34 \\ \hline 3528 \\ 26460 \\ \hline 29988 \end{array} \end{array}$$

$$\begin{array}{r} \text{(p)} \quad \begin{array}{r} 262 \\ \times 47 \\ \hline 1834 \\ 10480 \\ \hline 12314 \end{array} \end{array}$$

$$\begin{array}{r} \text{(q)} \quad \begin{array}{r} 1215 \\ \times 29 \\ \hline 10935 \\ 24300 \\ \hline 35230 \end{array} \end{array}$$

$$\begin{array}{r} \text{(r)} \quad \begin{array}{r} 3018 \\ \times 18 \\ \hline 24144 \\ 30180 \\ \hline 54324 \end{array} \end{array}$$

$$\begin{array}{r} \text{(s)} \quad \begin{array}{r} 2128 \\ \times 19 \\ \hline 19152 \\ 21280 \\ \hline 40432 \end{array} \end{array}$$

$$\begin{array}{r} \text{(t)} \quad \begin{array}{r} 1540 \\ \times 42 \\ \hline 3080 \\ 61600 \\ \hline 64680 \end{array} \end{array}$$

Exercise 5.7

$$\begin{aligned} \text{(a)} \quad 21 \times 100 &= 21 \times (1 \times 100) \\ &= (21 \times 1) \times 100 \end{aligned}$$

$$\begin{aligned} &= 21 \times 100 \\ &= 2100 \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad 42 \times 300 &= 42 \times (3 \times 100) \\ &= (42 \times 3) \times 100 \\ &= 126 \times 100 \\ &= 12600 \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad 47 \times 400 &= 47 \times (4 \times 100) \\ &= (47 \times 4) \times 100 \\ &= 188 \times 100 \\ &= 18800 \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad 54 \times 600 &= 54 \times (6 \times 100) \\ &= (54 \times 6) \times 100 \\ &= 324 \times 100 \\ &= 32400 \end{aligned}$$

$$\begin{aligned} \text{(e)} \quad 33 \times 700 &= 33 \times (7 \times 100) \\ &= (33 \times 7) \times 100 \\ &= 231 \times 100 \\ &= 23100 \end{aligned}$$

$$\begin{aligned} \text{(f)} \quad 81 \times 800 &= 81 \times (8 \times 100) \\ &= (81 \times 8) \times 100 \\ &= 648 \times 100 \\ &= 64800 \end{aligned}$$

$$\begin{aligned} \text{(g)} \quad 99 \times 300 &= 99 \times (3 \times 100) \\ &= (99 \times 3) \times 100 \\ &= 297 \times 100 \\ &= 29700 \end{aligned}$$

$$\begin{aligned} \text{(h)} \quad 34 \times 900 &= 34 \times (9 \times 100) \\ &= (34 \times 9) \times 100 \\ &= 306 \times 100 \\ &= 30600 \end{aligned}$$

$$\begin{aligned} \text{(i)} \quad 71 \times 200 &= 71 \times (2 \times 100) \\ &= (71 \times 2) \times 100 \\ &= 142 \times 100 \\ &= 14200 \end{aligned}$$

$$\begin{aligned} \text{(j)} \quad 33 \times 500 &= 33 \times (5 \times 100) \\ &= (33 \times 5) \times 100 \\ &= 165 \times 100 \\ &= 16500 \end{aligned}$$

$$\begin{aligned} \text{(k)} \quad 88 \times 100 &= 88 \times (1 \times 100) \\ &= (88 \times 1) \times 100 \\ &= 88 \times 100 \\ &= 8800 \end{aligned}$$

$$\begin{aligned} \text{(l)} \quad 49 \times 600 &= 49 \times (6 \times 100) \\ &= (49 \times 6) \times 100 \\ &= 294 \times 100 \\ &= 29400 \end{aligned}$$

$$\begin{aligned} \text{(m)} \quad 23 \times 300 &= 23 \times (3 \times 100) \\ &= (23 \times 3) \times 100 \\ &= 69 \times 100 \\ &= 6900 \end{aligned}$$

$$\begin{aligned} \text{(n)} \quad 24 \times 600 &= 24 \times (6 \times 100) \\ &= (24 \times 6) \times 100 \\ &= 144 \times 100 \\ &= 14400 \end{aligned}$$

$$\begin{aligned} \text{(o)} \quad 71 \times 500 &= 71 \times (5 \times 100) \\ &= (71 \times 5) \times 100 \\ &= 355 \times 100 \\ &= 35500 \end{aligned}$$

$$\begin{aligned} \text{(p)} \quad 88 \times 700 &= 88 \times (7 \times 100) \\ &= (88 \times 7) \times 100 \\ &= 616 \times 100 \\ &= 61600 \end{aligned}$$

$$\begin{aligned} \text{(q)} \quad 43 \times 200 &= 43 \times (2 \times 100) \\ &= (43 \times 2) \times 100 \\ &= 86 \times 100 \\ &= 8600 \end{aligned}$$

$$\begin{aligned} \text{(r)} \quad 49 \times 400 &= 49 \times (4 \times 100) \\ &= (49 \times 4) \times 100 \\ &= 196 \times 100 \\ &= 19600 \end{aligned}$$

$$\begin{aligned} \text{(s)} \quad 83 \times 400 &= 83 \times (4 \times 100) \\ &= (83 \times 4) \times 100 \\ &= 332 \times 100 \\ &= 33200 \end{aligned}$$

$$\begin{aligned} \text{(t)} \quad 73 \times 200 &= 73 \times (2 \times 100) \\ &= (73 \times 2) \times 100 \\ &= 146 \times 100 \\ &= 14600 \end{aligned}$$

Exercise 5.7

1. (a)	(b)	(c)	(d)
$\begin{array}{r} 15 \\ \times 213 \\ \hline 45 \\ 150 \\ 3000 \\ \hline 3195 \end{array}$	$\begin{array}{r} 91 \\ \times 357 \\ \hline 637 \\ 4550 \\ 27300 \\ \hline 32487 \end{array}$	$\begin{array}{r} 44 \\ \times 245 \\ \hline 220 \\ 1760 \\ 8800 \\ \hline 10780 \end{array}$	$\begin{array}{r} 27 \\ \times 308 \\ \hline 216 \\ 000 \\ 8100 \\ \hline 7316 \end{array}$

(e)	(f)	(g)	(h)
$\begin{array}{r} 75 \\ \times 905 \\ \hline 375 \\ 000 \\ 67500 \\ \hline 67875 \end{array}$	$\begin{array}{r} 37 \\ \times 219 \\ \hline 333 \\ 370 \\ 7400 \\ \hline 8103 \end{array}$	$\begin{array}{r} 87 \\ \times 315 \\ \hline 435 \\ 870 \\ 26100 \\ \hline 27405 \end{array}$	$\begin{array}{r} 71 \\ \times 305 \\ \hline 355 \\ 000 \\ 21300 \\ \hline 21655 \end{array}$

(i)	(j)	(k)	(l)
$\begin{array}{r} 425 \\ \times 189 \\ \hline 3825 \\ 34000 \\ 42500 \\ \hline 80325 \end{array}$	$\begin{array}{r} 375 \\ \times 137 \\ \hline 2625 \\ 11250 \\ 37500 \\ \hline 51375 \end{array}$	$\begin{array}{r} 678 \\ \times 337 \\ \hline 4746 \\ 20340 \\ 203400 \\ \hline 228486 \end{array}$	$\begin{array}{r} 537 \\ \times 209 \\ \hline 4833 \\ 0000 \\ 107400 \\ \hline 112233 \end{array}$

Exercise 5.9

1. (a) To estimate	$= 21 \times 65$
	$= 21 \times 65$
	↓ ↓
Nearest ten and multiply	$= 20 \times 70$
	$= 1400$ estimate product is
(b) To estimate	$= 86 \times 42$
	$= 86 \times 42$
	↓ ↓
Nearest ten and multiply	$= 90 \times 40$
	$= 3600$ estimate product is
(c) To estimate	$= 49 \times 51$
	$= 49 \times 51$
	↓ ↓
Nearest ten and multiply	$= 50 \times 50$
	$= 2500$ estimate product is
(d) To estimate	$= 29 \times 69$
	$= 29 \times 69$
	↓ ↓
Nearest ten and multiply	$= 30 \times 70$
	$= 2100$ estimate product is
2. (a) To estimate	$= 76 \times 64$
	$= 76 \times 64$
	↓ ↓
Nearest ten and multiply	$= 80 \times 60$
	$= 4800$ estimate product is
(b) To estimate	$= 97 \times 63$
	$= 97 \times 63$
	↓ ↓
Nearest ten and multiply	$= 100 \times 60$
	$= 6000$ estimate product is
(c) To estimate	$= 58 \times 85$
	$= 58 \times 85$
	↓ ↓
Nearest ten and multiply	$= 60 \times 80$
	$= 4800$ estimate product is
(d) To estimate	$= 67 \times 78$
	$= 67 \times 78$
	↓ ↓
Nearest ten and multiply	$= 70 \times 70$
	$= 1400$ estimate product is
3. (a) To estimate	$= 42 \times 57$
	$= 42 \times 57$
	↓ ↓
Nearest ten and multiply	$= 40 \times 60$
	$= 2400$ estimate product is
(b) To estimate	$= 47 \times 38$
	$= 47 \times 38$
	↓ ↓
Nearest ten and multiply	$= 40 \times 40$
	$= 1600$ estimate product is

(c) To estimate $= 98 \times 76$
 $= 98 \times 76$

Nearest ten and multiply $= 90 \times 80$
 $= 7200$ estimate product is

(d) To estimate $= 17 \times 78$
 $= 17 \times 78$

Nearest ten and multiply $= 10 \times 80$
 $= 800$ estimate product is

4. (a) To estimate $= 467 \times 321$
 $= 467 \times 321$

Nearest hundred and multiply $= 500 \times 300$
 $= 15000$ estimate product is

(b) To estimate $= 387 \times 298$
 $= 387 \times 298$

Nearest hundred and multiply $= 400 \times 300$
 $= 120000$ estimate product is

(c) To estimate $= 461 \times 278$
 $= 461 \times 278$

Nearest hundred and multiply $= 600 \times 300$
 $= 180000$ estimate product is

(d) To estimate $= 482 \times 318$
 $= 482 \times 318$

Nearest hundred and multiply $= 500 \times 300$
 $= 150000$ estimate product is

5. (a) To estimate $= 431 \times 367$
 $= 431 \times 367$

Nearest hundred and multiply $= 400 \times 400$
 $= 16000$ estimate product is

(b) To estimate $= 822 \times 282$
 $= 822 \times 282$

Nearest hundred and multiply $= 800 \times 300$
 $= 2400$ estimate product is

(c) To estimate $= 183 \times 163$
 $= 183 \times 163$

Nearest hundred and multiply $= 100 \times 200$
 $= 20000$ estimate product is

(d) To estimate $= 131 \times 687$
 $= 131 \times 687$

Nearest hundred and multiply $= 100 \times 700$
 $= 70000$ estimate product is

6. (a) To estimate $= 384 \times 129$
 $= 384 \times 129$

Nearest hundred and multiply $= 400 \times 100$
 $= 40000$ estimate product is

(b) To estimate $= 167 \times 246$
 $= 167 \times 246$

Nearest hundred and multiply $= 200 \times 200$
 $= 40000$ estimate product is

(c) To estimate $= 283 \times 63$
 $= 283 \times 63$

Nearest hundred and multiply $= 300 \times 60$
 $= 180000$ estimate product is

(d) To estimate $= 486 \times 312$
 $= 486 \times 312$

Nearest hundred and multiply $= 500 \times 300$
 $= 15000$ estimate product is

7. (a) To estimate $= 258 \times 67$
 $= 258 \times 67$

Nearest hundred and multiply $= 300 \times 70$
 $= 21000$ estimate product is

(b) To estimate $= 694 \times 36$
 $= 694 \times 36$

Nearest hundred and multiply $= 700 \times 40$
 $= 28000$ estimate product is

(c) To estimate $= 763 \times 69$
 $= 763 \times 69$

Nearest hundred and multiply $= 800 \times 70$
 $= 56000$ estimate product is

(d) To estimate $= 871 \times 45$
 $= 871 \times 45$

Nearest hundred and multiply $= 900 \times 50$
 $= 45000$ estimate product is

Exercise 5.10

1.

$$\begin{array}{r} 65 \\ \times 36 \\ \hline 390 \\ 1950 \\ \hline 2340 \end{array}$$

So, the 36 class student is = 2340

2.

$$\begin{array}{r} 235 \\ \times 127 \\ \hline 1645 \\ 4700 \\ 23500 \\ \hline 29845 \end{array}$$

So, the 127 boxes of chocolates is = 29845

$$\begin{array}{r} 3. \quad 54 \\ \times 23 \\ \hline 162 \\ 1080 \\ \hline 1242 \end{array}$$

So, the 23 trip passengers is = 1242.

$$\begin{array}{r} 4. \quad 6575 \\ \times 4 \\ \hline 26300 \end{array}$$

So, the cost 4 colour tv is = 26300

$$\begin{array}{r} 15. \quad 295 \\ \times 500 \\ \hline 000 \\ 0000 \\ 147500 \\ \hline 147500 \end{array}$$

So, the man have money is = 147500

$$\begin{array}{r} 16. \quad 1630 \\ \times 23 \\ \hline 4890 \\ 32600 \\ \hline 37490 \end{array}$$

So, the 23 packet paper sheets is 37490.

$$\begin{array}{r} 5. \quad 495 \\ \times 145 \\ \hline 2475 \\ 19800 \\ 49500 \\ \hline 71775 \end{array}$$

So, the 145 student school fees is = 71775

$$\begin{array}{r} 6. \quad 236 \\ \times 135 \\ \hline 1180 \\ 7080 \\ 23600 \\ \hline 31860 \end{array}$$

So, the 135 boxes marbles is = 31860

$$\begin{array}{r} 17. \quad 2850 \\ \times 354 \\ \hline 11400 \\ 142500 \\ 855000 \\ \hline 1008900 \end{array}$$

So, the 354 bricks trucks is = 1008900

$$\begin{array}{r} 7. \quad 52 \\ \times 7 \\ \hline 364 \end{array}$$

So, the cost 54 week days is = 364

$$\begin{array}{r} 8. \quad 125 \\ \times 31 \\ \hline 125 \\ 3750 \\ \hline 3875 \end{array}$$

So, the may month sell books is = 3875

$$\begin{array}{r} 9. \quad 1775 \\ \times 9 \\ \hline 15975 \end{array}$$

So, the 9 blankets costs is = 15975

$$\begin{array}{r} 10. \quad 738 \\ \times 256 \\ \hline 4428 \\ 36900 \\ 147600 \\ \hline 188928 \end{array}$$

So, the 256 apples in boxes is = 188928

$$\begin{array}{r} 11. \quad 208 \\ \times 238 \\ \hline 1664 \\ 6240 \\ 41600 \\ \hline 49404 \end{array}$$

So, the 238 book pages is = 49404

$$\begin{array}{r} 12. \quad 366 \\ \times 179 \\ \hline 3294 \\ 25620 \\ 36600 \\ \hline 65514 \end{array}$$

So, the 179 leap years days is = 65514

$$\begin{array}{r} 13. \quad 984 \\ \times 219 \\ \hline 8856 \\ 9840 \\ 196800 \\ \hline 215496 \end{array}$$

So, the 219 month saves money is = 215496

$$\begin{array}{r} 14. \quad 988 \\ \times 225 \\ \hline 4940 \\ 19760 \\ 197600 \\ \hline 222300 \end{array}$$

So, the 255 cycles cost is = 222300

6. Division

C. (1) $\begin{array}{r} 3 \\ 2 \overline{)6} \\ \underline{6} \\ 0 \end{array}$ (2) $\begin{array}{r} 3 \\ 3 \overline{)9} \\ \underline{9} \\ 0 \end{array}$ (3) $\begin{array}{r} 2 \\ 5 \overline{)10} \\ \underline{10} \\ 0 \end{array}$ (4) $\begin{array}{r} 1 \\ 9 \overline{)15} \\ \underline{9} \\ 6 \end{array}$

Q = 3, R = 0 Q = 3, R = 0 Q = 2, R = 0 Q = 1, R = 6

(5) $\begin{array}{r} 3 \\ 6 \overline{)18} \\ \underline{18} \\ 0 \end{array}$ (6) $\begin{array}{r} 6 \\ 4 \overline{)24} \\ \underline{24} \\ 0 \end{array}$ (7) $\begin{array}{r} 3 \\ 7 \overline{)21} \\ \underline{21} \\ 0 \end{array}$ (8) $\begin{array}{r} 7 \\ 4 \overline{)28} \\ \underline{28} \\ 0 \end{array}$

Q = 3, R = 0 Q = 6, R = 0 Q = 3, R = 0 Q = 7, R = 0

(9) $\begin{array}{r} 7 \\ 7 \overline{)35} \\ \underline{35} \\ 0 \end{array}$ (10) $\begin{array}{r} 9 \\ 6 \overline{)54} \\ \underline{54} \\ 0 \end{array}$ (11) $\begin{array}{r} 9 \\ 9 \overline{)81} \\ \underline{81} \\ 0 \end{array}$ (12) $\begin{array}{r} 8 \\ 8 \overline{)64} \\ \underline{64} \\ 0 \end{array}$

Q = 7, R = 0 Q = 9, R = 1 Q = 9, R = 1 Q = 8, R = 2

(13) $\begin{array}{r} 111 \\ 2 \overline{)222} \\ \underline{2} \\ 2 \\ \underline{2} \\ 2 \\ \underline{2} \\ 0 \end{array}$ (14) $\begin{array}{r} 113 \\ 3 \overline{)339} \\ \underline{3} \\ 4 \\ \underline{3} \\ 15 \\ \underline{15} \\ 0 \end{array}$ (15) $\begin{array}{r} 113 \\ 6 \overline{)678} \\ \underline{6} \\ 7 \\ \underline{6} \\ 18 \\ \underline{18} \\ 0 \end{array}$ (16) $\begin{array}{r} 127 \\ 7 \overline{)893} \\ \underline{7} \\ 19 \\ \underline{14} \\ 53 \\ \underline{49} \\ 4 \end{array}$

Q = 111, R = 0 Q = 113, R = 0 Q = 113, R = 0 Q = 127, R = 4

Exercise 6.1

A. (1)

$$\begin{array}{r} 211 \\ 4 \overline{)844} \\ \underline{8} \\ 4 \\ \underline{4} \\ 4 \\ \underline{4} \\ 0 \end{array}$$

check
 $211 \times 4 + 0 = 844$
 $Q = 211, R = 0$

(2)

$$\begin{array}{r} 113 \\ 5 \overline{)565} \\ \underline{5} \\ 6 \\ \underline{-5} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

check
 $113 \times 5 + 0 = 565$
 $Q = 113, R = 0$

(3)

$$\begin{array}{r} 123 \\ 6 \overline{)738} \\ \underline{6} \\ 13 \\ \underline{-12} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

check
 $123 \times 6 + 0 = 738$
 $Q = 123, R = 0$

(4)

$$\begin{array}{r} 323 \\ 3 \overline{)969} \\ \underline{9} \\ 6 \\ \underline{6} \\ 9 \\ \underline{9} \\ 0 \end{array}$$

check
 $323 \times 3 + 0 = 969$
 $Q = 323, R = 0$

(13)

$$\begin{array}{r} 1856 \\ 4 \overline{)7424} \\ \underline{4} \\ 34 \\ \underline{32} \\ 22 \\ \underline{20} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

check
 $1856 \times 4 + 0 = 7424$
 $Q = 1856, R = 0$

(14)

$$\begin{array}{r} 1201 \\ 5 \overline{)6005} \\ \underline{5} \\ 10 \\ \underline{10} \\ 05 \\ \underline{5} \\ 0 \end{array}$$

check
 $1201 \times 5 + 0 = 6005$
 $Q = 1201, R = 0$

(15)

$$\begin{array}{r} 1347 \\ 7 \overline{)9432} \\ \underline{7} \\ 24 \\ \underline{21} \\ 33 \\ \underline{28} \\ 52 \\ \underline{49} \\ 3 \end{array}$$

check
 $1347 \times 7 + 3 = 9432$
 $Q = 1347, R = 3$

(16)

$$\begin{array}{r} 897 \\ 6 \overline{)5383} \\ \underline{48} \\ 58 \\ \underline{54} \\ 43 \\ \underline{42} \\ 1 \end{array}$$

check
 $897 \times 6 + 1 = 5383$
 $Q = 897, R = 1$

(5)

$$\begin{array}{r} 115 \\ 8 \overline{)924} \\ \underline{-8} \\ 12 \\ \underline{8} \\ 44 \\ \underline{40} \\ 4 \end{array}$$

check
 $115 \times 8 + 4 = 924$
 $Q = 115, R = 4$

(6)

$$\begin{array}{r} 124 \\ 7 \overline{)874} \\ \underline{-7} \\ 17 \\ \underline{14} \\ 34 \\ \underline{28} \\ 6 \end{array}$$

check
 $124 \times 7 + 6 = 874$
 $Q = 124, R = 6$

(7)

$$\begin{array}{r} 3191 \\ 3 \overline{)9573} \\ \underline{9} \\ 5 \\ \underline{-3} \\ 27 \\ \underline{27} \\ 3 \\ \underline{3} \\ 0 \end{array}$$

check
 $3191 \times 3 + 0 = 9573$
 $Q = 3191, R = 0$

(8)

$$\begin{array}{r} 2284 \\ 2 \overline{)4568} \\ \underline{4} \\ 5 \\ \underline{4} \\ 16 \\ \underline{16} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

check
 $2284 \times 2 + 0 = 4568$
 $Q = 2284, R = 0$

B. (1)

$$\begin{array}{r} 15 \\ 5 \overline{)78} \\ \underline{5} \\ 28 \\ \underline{25} \\ 3 \end{array}$$

check
 $15 \times 5 + 3 = 78$
 $Q = 15, R = 3$

(2)

$$\begin{array}{r} 15 \\ 4 \overline{)63} \\ \underline{4} \\ 23 \\ \underline{20} \\ 3 \end{array}$$

check
 $15 \times 4 + 3 = 63$
 $Q = 15, R = 3$

(3)

$$\begin{array}{r} 216 \\ 3 \overline{)649} \\ \underline{6} \\ 4 \\ \underline{3} \\ 19 \\ \underline{18} \\ 1 \end{array}$$

check
 $216 \times 3 + 1 = 649$
 $Q = 216, R = 1$

(4)

$$\begin{array}{r} 33 \\ 7 \overline{)235} \\ \underline{21} \\ 25 \\ \underline{21} \\ 4 \end{array}$$

check
 $33 \times 7 + 4 = 235$
 $Q = 33, R = 4$

(9)

$$\begin{array}{r} 1436 \\ 6 \overline{)8616} \\ \underline{6} \\ 26 \\ \underline{24} \\ 21 \\ \underline{18} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

check
 $1436 \times 6 + 0 = 8616$
 $Q = 1436, R = 0$

(10)

$$\begin{array}{r} 1997 \\ 4 \overline{)7550} \\ \underline{4} \\ 35 \\ \underline{32} \\ 35 \\ \underline{35} \\ 30 \\ \underline{28} \\ 2 \end{array}$$

check
 $1997 \times 4 + 2 = 7550$
 $Q = 1997, R = 2$

(11)

$$\begin{array}{r} 731 \\ 7 \overline{)5120} \\ \underline{49} \\ 22 \\ \underline{21} \\ 10 \\ \underline{7} \\ 3 \end{array}$$

check
 $731 \times 7 + 3 = 5120$
 $Q = 731, R = 3$

(12)

$$\begin{array}{r} 757 \\ 9 \overline{)6818} \\ \underline{63} \\ 51 \\ \underline{45} \\ 68 \\ \underline{63} \\ 5 \end{array}$$

check
 $757 \times 9 + 5 = 6818$
 $Q = 757, R = 5$

(5)

$$\begin{array}{r} 50 \\ 9 \overline{)457} \\ \underline{45} \\ 7 \end{array}$$

check
 $50 \times 9 + 7 = 457$
 $Q = 50, R = 7$

(6)

$$\begin{array}{r} 91 \\ 8 \overline{)729} \\ \underline{72} \\ 09 \\ \underline{8} \\ 1 \end{array}$$

check
 $91 \times 8 + 1 = 729$
 $Q = 91, R = 1$

(7)

$$\begin{array}{r} 108 \\ 9 \overline{)978} \\ \underline{9} \\ 78 \\ \underline{72} \\ 6 \end{array}$$

check
 $108 \times 9 + 6 = 978$
 $Q = 108, R = 6$

(8)

$$\begin{array}{r} 29 \\ 9 \overline{)267} \\ \underline{18} \\ 87 \\ \underline{81} \\ 6 \end{array}$$

check
 $29 \times 9 + 6 = 267$
 $Q = 29, R = 6$

(9)

$$\begin{array}{r} 120 \\ 7 \overline{)903} \\ \underline{7} \\ 20 \\ \underline{14} \\ 63 \\ \underline{63} \\ 0 \end{array}$$

check
 $129 \times 7 + 0 = 903$
 $Q = 129, R = 0$

(10)

$$\begin{array}{r} 1076 \\ 2 \overline{)2153} \\ \underline{2} \\ 15 \\ \underline{14} \\ 13 \\ \underline{12} \\ 1 \end{array}$$

check
 $1076 \times 2 + 1 = 2153$
 $Q = 1076, R = 1$

(11)

$$\begin{array}{r} 1265 \\ 6 \overline{)7595} \\ \underline{6} \\ 15 \\ \underline{15} \\ 39 \\ \underline{36} \\ 35 \\ \underline{30} \\ 5 \end{array}$$

check
 $1265 \times 6 + 5 = 7595$
 $Q = 1265, R = 5$

(12)
$$\begin{array}{r} 8 \overline{)8437} \\ \underline{8} \\ 43 \\ \underline{40} \\ 37 \\ \underline{32} \\ 5 \end{array}$$

(13)
$$\begin{array}{r} 4 \overline{)3648} \\ \underline{36} \\ 4 \\ \underline{4} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

(14)
$$\begin{array}{r} 3 \overline{)1059} \\ \underline{9} \\ 15 \\ \underline{15} \\ 9 \\ \underline{9} \\ 0 \end{array}$$

(15)
$$\begin{array}{r} 7 \overline{)9432} \\ \underline{7} \\ 24 \\ \underline{21} \\ 33 \\ \underline{28} \\ 52 \\ \underline{49} \\ 3 \end{array}$$

check
 $1054 \times 8 + 5 = 8437$
 $Q = 1054,$
 $R = 5$

check
 $912 \times 4 + 0 = 3648$
 $Q = 912,$
 $R = 0$

check
 $353 \times 3 + 0 = 1059$
 $Q = 353,$
 $R = 0$

check
 $1347 \times 7 + 3 = 9432$
 $Q = 1347,$
 $R = 3$

(9)
$$\begin{array}{r} 43 \overline{)86} \\ \underline{86} \\ 0 \end{array}$$

check
 $2 \times 43 + 0 = 86$
 $Q = 2,$
 $R = 0$

(10)
$$\begin{array}{r} 31 \overline{)93} \\ \underline{93} \\ 0 \end{array}$$

check
 $3 \times 31 + 0 = 93$
 $Q = 3,$
 $R = 0$

(11)
$$\begin{array}{r} 24 \overline{)74} \\ \underline{72} \\ 4 \end{array}$$

check
 $3 \times 24 + 4 = 74$
 $Q = 3,$
 $R = 4$

(12)
$$\begin{array}{r} 56 \overline{)67} \\ \underline{56} \\ 11 \end{array}$$

check
 $1 \times 56 + 11 = 67$
 $Q = 1,$
 $R = 11$

(13)
$$\begin{array}{r} 61 \overline{)88} \\ \underline{61} \\ 27 \end{array}$$

check
 $1 \times 61 + 27 = 88$
 $Q = 1,$
 $R = 27$

(14)
$$\begin{array}{r} 71 \overline{)96} \\ \underline{71} \\ 25 \end{array}$$

check
 $1 \times 71 + 25 = 96$
 $Q = 1,$
 $R = 25$

(15)
$$\begin{array}{r} 27 \overline{)78} \\ \underline{54} \\ 24 \end{array}$$

check
 $2 \times 27 + 24 = 78$
 $Q = 2,$
 $R = 27$

(16)
$$\begin{array}{r} 38 \overline{)92} \\ \underline{76} \\ 16 \end{array}$$

check
 $2 \times 38 + 16 = 92$
 $Q = 2,$
 $R = 16$

Exercise 6.2

A. Question	Rounds To	Division	Estimated Quotient
1. $86 \div 27$	$90 \div 30$	$9 \div 3$	3
2. $91 \div 36$	$90 \div 40$	$9 \div 4$	2
3. $193 \div 24$	$190 \div 20$	$19 \div 2$	9
4. $315 \div 43$	$300 \div 40$	$30 \div 4$	7
5. $868 \div 37$	$900 \div 40$	$90 \div 4$	22
B.			
1. $78 \div 18$	$80 \div 20$	$8 \div 2$	4
2. $64 \div 21$	$60 \div 20$	$6 \div 2$	3
3. $289 \div 69$	$300 \div 70$	$30 \div 70$	4
4. $753 \div 29$	$800 \div 30$	$80 \div 3$	26
5. $691 \div 51$	$700 \div 50$	$70 \div 5$	14

Exercise 6.3

A. Question	Rounds To	Estimated quotient	Actual quotient
1. $48 \div 28$	$50 \div 30$	1	1
2. $53 \div 25$	$50 \div 30$	1	2
3. $74 \div 35$	$70 \div 40$	1	2
4. $114 \div 25$	$100 \div 30$	3	4
5. $201 \div 44$	$200 \div 40$	5	4
B. (1)	(2)	(3)	(4)
$\begin{array}{r} 14 \overline{)92} \\ \underline{84} \\ 8 \end{array}$	$\begin{array}{r} 42 \overline{)89} \\ \underline{84} \\ 5 \end{array}$	$\begin{array}{r} 29 \overline{)82} \\ \underline{58} \\ 24 \end{array}$	$\begin{array}{r} 40 \overline{)95} \\ \underline{80} \\ 15 \end{array}$
check $6 \times 14 + 8 = 92$ $Q = 6,$ $R = 8$	check $2 \times 42 + 5 = 89$ $Q = 2,$ $R = 5$	check $2 \times 29 + 24 = 82$ $Q = 2,$ $R = 24$	check $2 \times 40 + 15 = 95$ $Q = 2,$ $R = 15$

(5)
$$\begin{array}{r} 25 \overline{)97} \\ \underline{75} \\ 22 \end{array}$$

check
 $3 \times 25 + 22 = 97$
 $Q = 3,$
 $R = 22$

(6)
$$\begin{array}{r} 35 \overline{)63} \\ \underline{35} \\ 28 \end{array}$$

check
 $1 \times 35 + 28 = 63$
 $Q = 1,$
 $R = 28$

(7)
$$\begin{array}{r} 23 \overline{)94} \\ \underline{92} \\ 2 \end{array}$$

check
 $4 \times 23 + 2 = 94$
 $Q = 4,$
 $R = 2$

(8)
$$\begin{array}{r} 40 \overline{)85} \\ \underline{80} \\ 5 \end{array}$$

check
 $2 \times 40 + 5 = 85$
 $Q = 2,$
 $R = 5$

C. (1)
$$\begin{array}{r} 21 \overline{)104} \\ \underline{84} \\ 20 \end{array}$$

check
 $4 \times 21 + 20 = 104$
 $Q = 4,$
 $R = 20$

(2)
$$\begin{array}{r} 42 \overline{)345} \\ \underline{336} \\ 9 \end{array}$$

check
 $8 \times 42 + 9 = 345$
 $Q = 8,$
 $R = 9$

(3)
$$\begin{array}{r} 27 \overline{)169} \\ \underline{162} \\ 7 \end{array}$$

check
 $6 \times 27 + 7 = 169$
 $Q = 6,$
 $R = 7$

(4)
$$\begin{array}{r} 35 \overline{)257} \\ \underline{245} \\ 12 \end{array}$$

check
 $7 \times 35 + 12 = 257$
 $Q = 7,$
 $R = 12$

(5)
$$\begin{array}{r} 81 \overline{)735} \\ \underline{729} \\ 6 \end{array}$$

check
 $9 \times 81 + 6 = 735$
 $Q = 9,$
 $R = 6$

(6)
$$\begin{array}{r} 44 \overline{)433} \\ \underline{396} \\ 37 \end{array}$$

check
 $9 \times 44 + 37 = 433$
 $Q = 9,$
 $R = 37$

(7)
$$\begin{array}{r} 56 \overline{)460} \\ \underline{448} \\ 12 \end{array}$$

check
 $8 \times 56 + 12 = 460$
 $Q = 8,$
 $R = 12$

(8)
$$\begin{array}{r} 62 \overline{)304} \\ \underline{248} \\ 56 \end{array}$$

check
 $4 \times 62 + 56 = 304$
 $Q = 4,$
 $R = 56$

(9)
$$\begin{array}{r} 34 \overline{)256} \\ \underline{238} \\ 18 \end{array}$$

check
 $7 \times 34 + 18 = 256$
 $Q = 7,$
 $R = 18$

(10)
$$\begin{array}{r} 18 \overline{)141} \\ \underline{126} \\ 15 \end{array}$$

check
 $7 \times 18 + 15 = 141$
 $Q = 7,$
 $R = 15$

(11)
$$\begin{array}{r} 38 \overline{)281} \\ \underline{266} \\ 15 \end{array}$$

check
 $7 \times 38 + 15 = 281$
 $Q = 7,$
 $R = 15$

(12)
$$\begin{array}{r} 45 \overline{)513} \\ \underline{495} \\ 18 \end{array}$$

check
 $11 \times 45 + 18 = 513$
 $Q = 11,$
 $R = 18$

$$(13) \begin{array}{r} 17 \\ 38 \overline{)6627} \\ \underline{38} \\ 282 \\ \underline{266} \\ 167 \\ \underline{152} \\ 15 \end{array}$$

check
 $17 \times 38 + 15 = 6627$
 $Q = 17,$
 $R = 15$

$$(14) \begin{array}{r} 34 \\ 57 \overline{)1957} \\ \underline{177} \\ 241 \\ \underline{228} \\ 13 \end{array}$$

check
 $34 \times 57 + 13 = 1957$
 $Q = 34,$
 $R = 13$

$$(15) \begin{array}{r} 13 \\ 82 \overline{)1132} \\ \underline{1066} \\ 66 \end{array}$$

check
 $13 \times 82 + 66 = 1132$
 $Q = 13,$
 $R = 66$

$$(16) \begin{array}{r} 30 \\ 77 \overline{)2345} \\ \underline{2310} \\ 35 \end{array}$$

check
 $30 \times 77 + 35 = 2345$
 $Q = 30,$
 $R = 35$

$$(13) \begin{array}{r} 206 \\ 18 \overline{)3708} \\ \underline{360} \\ 108 \\ \underline{108} \\ 0 \end{array}$$

check
 $206 \times 18 + 0 = 3708$
 $Q = 206,$
 $R = 0$

$$(14) \begin{array}{r} 313 \\ 29 \overline{)9084} \\ \underline{87} \\ 38 \\ \underline{29} \\ 94 \\ \underline{87} \\ 7 \end{array}$$

check
 $313 \times 29 + 7 = 9084$
 $Q = 313,$
 $R = 7$

$$(15) \begin{array}{r} 158 \\ 28 \overline{)4424} \\ \underline{28} \\ 162 \\ \underline{140} \\ 224 \\ \underline{224} \\ 0 \end{array}$$

check
 $158 \times 28 + 0 = 4424$
 $Q = 158,$
 $R = 0$

$$(16) \begin{array}{r} 84 \\ 75 \overline{)6301} \\ \underline{600} \\ 301 \\ \underline{300} \\ 1 \end{array}$$

check
 $84 \times 75 + 1 = 6301$
 $Q = 84,$
 $R = 1$

Exercise 6.4

D. (1)
$$\begin{array}{r} 81 \\ 17 \overline{)1392} \\ \underline{136} \\ 32 \\ \underline{17} \\ 15 \end{array}$$

check
 $17 \times 81 + 15 = 1392$
 $Q = 17,$
 $R = 15$

(2)
$$\begin{array}{r} 72 \\ 16 \overline{)1161} \\ \underline{112} \\ 41 \\ \underline{32} \\ 9 \end{array}$$

check
 $72 \times 16 + 9 = 1161$
 $Q = 72,$
 $R = 9$

(3)
$$\begin{array}{r} 46 \\ 41 \overline{)1912} \\ \underline{164} \\ 272 \\ \underline{246} \\ 26 \end{array}$$

check
 $46 \times 41 + 26 = 1912$
 $Q = 46,$
 $R = 26$

(4)
$$\begin{array}{r} 396 \\ 25 \overline{)9913} \\ \underline{75} \\ 241 \\ \underline{225} \\ 163 \\ \underline{150} \\ 13 \end{array}$$

check
 $396 \times 25 + 13 = 9913$
 $Q = 396,$
 $R = 13$

(5)
$$\begin{array}{r} 27 \\ 21 \overline{)567} \\ \underline{42} \\ 147 \\ \underline{147} \\ 0 \end{array}$$

check
 $27 \times 21 + 0 = 567$
 $Q = 27,$
 $R = 0$

(6)
$$\begin{array}{r} 19 \\ 14 \overline{)278} \\ \underline{14} \\ 138 \\ \underline{126} \\ 12 \end{array}$$

check
 $19 \times 14 + 12 = 278$
 $Q = 19,$
 $R = 12$

(7)
$$\begin{array}{r} 32 \\ 18 \overline{)579} \\ \underline{57} \\ 39 \\ \underline{36} \\ 3 \end{array}$$

check
 $32 \times 18 + 3 = 579$
 $Q = 32,$
 $R = 3$

(8)
$$\begin{array}{r} 8 \\ 51 \overline{)426} \\ \underline{408} \\ 18 \end{array}$$

check
 $8 \times 51 + 18 = 426$
 $Q = 8,$
 $R = 18$

(9)
$$\begin{array}{r} 7 \\ 25 \overline{)175} \\ \underline{175} \\ 0 \end{array}$$

check
 $7 \times 25 + 0 = 175$
 $Q = 7,$
 $R = 0$

(10)
$$\begin{array}{r} 45 \\ 16 \overline{)735} \\ \underline{64} \\ 95 \\ \underline{80} \\ 15 \end{array}$$

check
 $45 \times 16 + 15 = 735$
 $Q = 45,$
 $R = 15$

(11)
$$\begin{array}{r} 23 \\ 22 \overline{)525} \\ \underline{44} \\ 85 \\ \underline{66} \\ 19 \end{array}$$

check
 $23 \times 22 + 19 = 525$
 $Q = 23,$
 $R = 19$

(12)
$$\begin{array}{r} 30 \\ 23 \overline{)695} \\ \underline{690} \\ 5 \end{array}$$

check
 $30 \times 23 + 5 = 695$
 $Q = 30,$
 $R = 5$

1. number of balls = 119

number of balls on equally boxes = 7
number of balls in box = $119 \div 7$

$$\begin{array}{r} 17 \\ 7 \overline{)119} \\ \underline{7} \\ 49 \\ \underline{49} \\ 0 \end{array}$$

Ans: 17 balls in each box is.

2. total number of students = 156

number of students formed a team = 6
number of team needed = $156 \div 6$

$$\begin{array}{r} 26 \\ 6 \overline{)156} \\ \underline{12} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

Ans: 26 team are needed for 156 students.

3. total number of pencils = 594

number of packets = 33
number of pencils in packet = $594 \div 33$

$$\begin{array}{r} 18 \\ 33 \overline{)594} \\ \underline{33} \\ 264 \\ \underline{264} \\ 0 \end{array}$$

Ans: 18 pencils are there in each packets.

4. total number of trees = 153

number of rows = 9
number of planted rows needed = $153 \div 9$

$$\begin{array}{r} 17 \\ 9 \overline{)153} \\ \underline{9} \\ 63 \\ \underline{63} \\ 0 \end{array}$$

Ans: 17 trees were planted in each row.

5. total number of people = 625

number of people comfortably in a bus = 25
number of bus needed = $625 \div 25$

$$\begin{array}{r} 25 \\ 25 \overline{)625} \\ \underline{50} \\ 125 \\ \underline{125} \\ 0 \end{array}$$

Ans: 25 buses are needed for all people.

6. total number of ticket = 25

number of all ticket cost = 2125
number of one ticket cost = $25 \div 2125$

$$\begin{array}{r} 85 \\ 25 \overline{)2125} \\ \underline{200} \\ 125 \\ \underline{125} \\ 0 \end{array}$$

Ans: 85 rupees one ticket of cost.

7. total number of note books = 42
 number of all notebooks cost = 966
 number of one notebook cost = $966 \div 42$

$$\begin{array}{r} 23 \\ 42 \overline{)966} \\ \underline{84} \\ 126 \\ \underline{126} \\ 0 \end{array}$$

Ans: 23 one notebook cost is.

8. total number of ribbon is = 3825 cm
 number of ribbon each measuring is = 35 cm
 number of pieces can be cut is = $3825 \div 35$

$$\begin{array}{r} 109 \\ 35 \overline{)3825} \\ \underline{350} \\ 325 \\ \underline{315} \\ 10 \end{array}$$

Ans: 109 cm pieces cut in ribbon

9. total number of money = 6012
 number of children = 21
 number of all children have money is = $6012 \div 21$

$$\begin{array}{r} 286 \\ 21 \overline{)6012} \\ \underline{42} \\ 182 \\ \underline{168} \\ 142 \\ \underline{126} \\ 16 \end{array}$$

Ans: All children have money is 286 rupees total money is left = 16 rupees

10. total number of cartoons = 864
 number of books are loaded in truck = 36
 number of cartoon are loaded in each truck = $864 \div 36$

$$\begin{array}{r} 24 \\ 36 \overline{)864} \\ \underline{72} \\ 144 \\ \underline{144} \\ 0 \end{array}$$

Ans: 24 cartoon are loaded in each truck.

7. Factors and Multiples

A. Number of cows	1	2	3	4	5	6	7	8	9	10
Number of legs	4	8	12	16	20	24	28	32	36	40

- B. 2. $12 = 2 \times 6$; there are 2 rows of 6 tomato plants each.
 3. $12 = 3 \times 4$; there are 3 rows of 4 brinjal plants each.

Exercise 7.1

A. Do yourself.

- B.**
- | | | |
|-----------------------|--------------------|---------------------|
| 1. 10 | 2. 7 | 3. 11 |
| $10 \times 1 = 10$ | $7 \times 1 = 7$ | $11 \times 1 = 11$ |
| $10 \times 2 = 20$ | $7 \times 2 = 14$ | $11 \times 2 = 22$ |
| $10 \times 3 = 30$ | $7 \times 3 = 21$ | $11 \times 3 = 33$ |
| 4. 12 | 5. 20 | 6. 35 |
| $12 \times 1 = 12$ | $20 \times 1 = 20$ | $35 \times 1 = 35$ |
| $12 \times 2 = 24$ | $20 \times 2 = 40$ | $35 \times 2 = 70$ |
| $12 \times 3 = 36$ | $20 \times 3 = 60$ | $35 \times 3 = 105$ |
| C. 1. 8 | 2. 12 | 3. 17 |
| $8 \times 1 = 8$ | $12 \times 1 = 12$ | $17 \times 1 = 17$ |

$8 \times 2 = 16$	$12 \times 2 = 24$	$17 \times 2 = 34$
$8 \times 3 = 24$	$12 \times 3 = 36$	$17 \times 3 = 51$
$8 \times 4 = 32$	$12 \times 4 = 48$	$17 \times 4 = 68$
$8 \times 5 = 40$	$12 \times 5 = 60$	$17 \times 5 = 85$

4. **26**
 $26 \times 1 = 26$
 $26 \times 2 = 52$
 $26 \times 3 = 78$
 $26 \times 4 = 104$
 $26 \times 5 = 130$
5. **41**
 $41 \times 1 = 41$
 $41 \times 2 = 82$
 $41 \times 3 = 123$
 $41 \times 4 = 164$
 $41 \times 5 = 205$
6. **55**
 $55 \times 1 = 55$
 $55 \times 2 = 110$
 $55 \times 3 = 165$
 $55 \times 4 = 220$
 $55 \times 5 = 275$

- D.** 1. **5**
 $5 \times 1 = 5$
 $5 \times 3 = 15$
 $5 \times 5 = 25$
 $5 \times 7 = 35$
 $5 \times 9 = 45$
2. **11**
 $11 \times 1 = 11$
 $11 \times 3 = 33$
 $11 \times 5 = 55$
 $11 \times 7 = 77$
 $11 \times 9 = 99$
3. **19**
 $19 \times 1 = 19$
 $19 \times 3 = 57$
 $19 \times 5 = 95$
 $19 \times 7 = 133$
 $19 \times 9 = 171$
5. **53**
 $53 \times 1 = 53$
 $53 \times 3 = 159$
 $53 \times 5 = 265$
 $53 \times 7 = 371$
 $53 \times 9 = 477$

- 31 \times 1 = 31
 31 \times 3 = 93
 31 \times 5 = 155
 31 \times 7 = 217
 31 \times 9 = 279
- 73 \times 1 = 73
 73 \times 3 = 219
 73 \times 5 = 365
 73 \times 7 = 511
 73 \times 9 = 657
- E.** 1. **9**
 $9 \times 2 = 18$
 $9 \times 4 = 36$
 $9 \times 6 = 54$
 $9 \times 8 = 72$
 $9 \times 10 = 90$
2. **16**
 $16 \times 2 = 32$
 $16 \times 4 = 64$
 $16 \times 6 = 96$
 $16 \times 8 = 128$
 $16 \times 10 = 160$
3. **24**
 $24 \times 2 = 48$
 $24 \times 4 = 96$
 $24 \times 6 = 144$
 $24 \times 8 = 192$
 $24 \times 10 = 240$

4. **35**
 $35 \times 2 = 70$
 $35 \times 4 = 140$
 $35 \times 6 = 210$
 $35 \times 8 = 280$
 $35 \times 10 = 350$
5. **48**
 $48 \times 2 = 96$
 $48 \times 4 = 192$
 $48 \times 6 = 288$
 $48 \times 8 = 384$
 $48 \times 10 = 480$
6. **81**
 $81 \times 2 = 162$
 $81 \times 4 = 324$
 $81 \times 6 = 486$
 $81 \times 8 = 648$
 $81 \times 10 = 810$

- F.** 1. **40 > 60**
 $11 \times 4 = 44$
 $11 \times 4 = 48$
 $11 \times 4 = 52$
 $11 \times 4 = 56$
2. **6 > 85**
 $11 \times 6 = 66$
 $11 \times 6 = 72$
 $11 \times 6 = 78$
 $11 \times 6 = 84$
3. **12 > 60**
 $12 \times 1 = 12$
 $12 \times 2 = 24$
 $12 \times 3 = 36$
 $12 \times 4 = 48$

4. **15 > 50**
 $15 \times 1 = 15$
 $15 \times 2 = 30$
 $15 \times 3 = 45$

1. (F), 2. (T), 3. (T), 4. (T), 5. (F), 6. (T)

Exercise 7.2

- A.** $6 \times 1 = 6$ $3 \times 2 = 6$
 $6 \times 2 = 12$ $3 \times 4 = 12$
 $6 \times 3 = 18$ $3 \times 6 = 18$
- B.** 1. Common multiples – 6, 12, 18
 2. Common multiples – 10, 20, 30, 40, 50
 3. Common multiples – 12, 24, 36

4. Common multiples – 9, 18, 27

5. Common multiples – 5, 6

C. Do yourself.

Exercise 7.3

A. A

- 2
- 3
- 5
- 11

B

- 38
- 39
- 85
- 77

C

- 19
- 13
- 17
- 7

B. 1. 15

- 1×15
 - 3×5
 - 5×3
- The factors of 15 are 1, 3, 5, 5, 3 and 15.

2. 16

- 1×16
 - 4×4
 - 4×4
- The factors of 16 are 1, 2, 4, 8, 4 and 16.

3. 35

- 1×35
 - 5×7
 - 7×5
- The factors of 35 are 1, 5, 7, 7, 5 and 35.

4. 36

- 1×36
 - 2×18
 - 3×12
 - 4×9
 - 6×6
- The factors of 36 are 1, 2, 3, 4, 6, 9, 12, 18.

5. 23

- 1×23
- The factors of 23 are only 1, 23.

6. 81

- 1×81
 - 9×9
- The factors of 81 are 1, 9 and 81.

C. 1. 18

$$\begin{array}{r} 1 \overline{) 18} \\ \underline{-18} \\ 0 \end{array} \quad \begin{array}{r} 2 \overline{) 18} \\ \underline{-18} \\ 0 \end{array} \quad \begin{array}{r} 3 \overline{) 18} \\ \underline{-18} \\ 0 \end{array}$$

The factors of 18 are 1, 2, 3, 6, 9 and 18.

2. 25

$$\begin{array}{r} 1 \overline{) 25} \\ \underline{-25} \\ 0 \end{array} \quad \begin{array}{r} 5 \overline{) 25} \\ \underline{-25} \\ 0 \end{array}$$

The factors of 25 are 1, 5 and 25.

3. 39

$$\begin{array}{r} 1 \overline{) 39} \\ \underline{-39} \\ 0 \end{array} \quad \begin{array}{r} 13 \overline{) 39} \\ \underline{-39} \\ 0 \end{array}$$

The factors of 39 are 1, 3 and 39.

3. 42

$$\begin{array}{r} 6 \overline{) 42} \\ \underline{-42} \\ 0 \end{array} \quad \begin{array}{r} 7 \overline{) 42} \\ \underline{-42} \\ 0 \end{array} \quad \begin{array}{r} 14 \overline{) 42} \\ \underline{-42} \\ 0 \end{array}$$

The factors of 42 are 1, 6, 7, 14, 3, 6, 7 and 42.

5. 56

$$\begin{array}{r} 1 \overline{) 56} \\ \underline{-56} \\ 0 \end{array} \quad \begin{array}{r} 7 \overline{) 56} \\ \underline{-56} \\ 0 \end{array} \quad \begin{array}{r} 8 \overline{) 56} \\ \underline{-56} \\ 0 \end{array} \quad \begin{array}{r} 14 \overline{) 56} \\ \underline{-56} \\ 0 \end{array}$$

The factors of 56 are 1, 7, 8, 14, 7, 8 and 56.

6. 93

$$\begin{array}{r} 1 \overline{) 93} \\ \underline{-93} \\ 0 \end{array} \quad \begin{array}{r} 31 \overline{) 93} \\ \underline{-93} \\ 0 \end{array}$$

The factors of 93 are 1, 3, 31 and 93.

D. 1. yes

2. No

3. yes

4. yes

E. 1. No

2. yes

3. Yes

4. Yes

Exercise 7.4

1. 6, 8

- 1×6
- 2×3

The factors of 6 are 1, 2, 6 and 3.

Common factors of 6 and 8 are 1, 2.

- 1×8
- 2×4

The factors of 8 are 1, 2, 8 and 4.

2. 30, 45

- 1×30
- 2×15
- 6×5
- 10×3

The factors of 30 are 1, 2, 6, 10, 15, 5, 3 and 30.

Common factors of 30 and 45 are 1, 5.

- 1×45
- 5×9
- 9×5

The factors of 45 are 1, 5, 9, 9, 5 and 45.

3. 21, 24

- 1×21
- 3×7
- 7×3

The factors of 21 are 1, 3, 7, 7, 3 and 21.

Common factors of 21 and 24 are 1, 3.

- 1×24
- 3×8
- 4×6
- 8×3

The factors of 24 are 1, 3, 4, 8, 8, 6 and 3.

4. 28, 35

- 1×28
- 4×7
- 7×4

The factors of 28 are 1, 4, 7, 4, 7 and 28.

Common factors of 28 and 35 are 1, 7.

- 1×35
- 5×7
- 7×5

The factors of 35 are 1, 5, 7, 5, 7 and 35.

B. 1. 18, 21

Factors of 18 = 1, 2, 3, 4, 6, 9, 18

Factors of 21 = 1, 3, 7, 21

Common factors = 1, 3.

2. 12, 16

Factors of 12 = 1, 2, 3, 4, 6, 12

Factors of 16 = 1, 2, 4, 8, 16

Common factors = 1, 2, 4.

3. 42, 63

Factors of 42 = 1, 2, 3, 6, 7, 14, 42

Factors of 63 = 1, 3, 7, 9, 21, 63

Common factors = 1, 3, 7.

8. Fractions

A. 1. $\frac{1}{2}$ 2. $\frac{1}{3}$ 3. $\frac{3}{4}$ 4. $\frac{1}{6}$ 5. $\frac{6}{8}$ 6. $\frac{3}{8}$

B. Do yourself.

C. 1. 4

2. 12, 3

Exercise 8.1

A. Do yourself.

B. 1. 2

2. 4

3. 3

4. 8

5. 5

6. 6

C. 1. $\frac{4}{10}$

4 out of 10 equal parts

fourth-tenths

2. $\frac{1}{4}$

1 out of 4 equal parts

one-quarter

3. $\frac{2}{3}$

2 out of 3 equal parts

two-thirds

4. $\frac{3}{8}$

3 out of 8 equal parts

three-eighths

5. $\frac{3}{4}$

3 out of 4 equal parts

three-fourths

6. $\frac{1}{3}$

1 out of 3 equal parts

one-third

D. 1. $\frac{4}{4}$

2. $\frac{6}{6}$

3. $\frac{3}{3}$

4. $\frac{10}{10}$

5. $\frac{2}{2}$

E. 1. $\frac{2}{2}$

2. $\frac{3}{3}$

3. $\frac{9}{9}$

4. $\frac{4}{4}$

5. $\frac{10}{10}$

Exercise 8.2

A. 1. $\frac{1}{3}$ of 18

$$18 \div 3 = 6$$
$$6 \times 1 = 6$$

Ans: $\frac{1}{3}$ of 18 is 6.

2. $\frac{2}{3}$ of 18

$$18 \div 3 = 6$$
$$6 \times 2 = 12$$

Ans: $\frac{2}{3}$ of 18 is 12.

3. $\frac{3}{3}$ of 18

$$18 \div 3 = 6$$
$$6 \times 3 = 18$$

Ans: $\frac{3}{3}$ of 18 is 18.

4. $\frac{5}{6}$ of 18

$$18 \div 6 = 3$$
$$3 \times 5 = 15$$

Ans: $\frac{5}{6}$ of 18 is 15.

5. $\frac{1}{4}$ of 16

$$16 \div 4 = 4$$
$$4 \times 1 = 4$$

Ans: $\frac{1}{4}$ of 16 is 4.

6. $\frac{2}{4}$ of 18

$$18 \div 4 = 4.5$$
$$4.5 \times 2 = 9$$

Ans: $\frac{2}{4}$ of 18 is 9.

7. $\frac{3}{4}$ of 16

$$16 \div 4 = 4$$
$$4 \times 3 = 12$$

Ans: $\frac{3}{4}$ of 16 is 12.

8. $\frac{5}{8}$ of 32

$$32 \div 8 = 4$$
$$4 \times 5 = 20$$

Ans: $\frac{5}{8}$ of 32 is 20.

9. $\frac{1}{6}$ of 36

$$36 \div 6 = 6$$
$$6 \times 1 = 6$$

Ans: $\frac{1}{6}$ of 36 is 6.

10. $\frac{2}{6}$ of 36

$$36 \div 6 = 6$$
$$6 \times 2 = 12$$

Ans: $\frac{2}{6}$ of 36 is 12.

11. $\frac{3}{6}$ of 36

$$36 \div 6 = 6$$
$$6 \times 3 = 18$$

Ans: $\frac{3}{6}$ of 36 is 18.

12. $\frac{3}{5}$ of 25

$$25 \div 5 = 5$$
$$5 \times 3 = 15$$

Ans: $\frac{3}{5}$ of 25 is 15.

B. 1. $\frac{1}{2}$ of dozen

$$1 \text{ dozen} = 12$$
$$12 \div 2 = 6$$
$$6 \times 1 = 6$$

Ans: $\frac{1}{2}$ of a dozen is 6.

2. $\frac{1}{3}$ of dozen

$$1 \text{ dozen} = 12$$
$$12 \div 3 = 4$$
$$4 \times 1 = 4$$

Ans: $\frac{1}{3}$ of a dozen is 4.

3. $\frac{2}{3}$ of dozen

$$1 \text{ dozen} = 12$$
$$12 \div 3 = 4$$
$$4 \times 2 = 8$$

Ans: $\frac{2}{3}$ of a dozen is 8.

4. $\frac{3}{4}$ of dozen

$$1 \text{ dozen} = 12$$
$$12 \div 4 = 3$$
$$3 \times 3 = 9$$

Ans: $\frac{3}{4}$ of a dozen is 9.

5. $\frac{1}{6}$ of dozen

$$1 \text{ dozen} = 12$$
$$12 \div 6 = 2$$
$$2 \times 1 = 2$$

Ans: $\frac{1}{6}$ of a dozen is 2.

6. $\frac{5}{6}$ of dozen

$$1 \text{ dozen} = 12$$
$$12 \div 6 = 2$$
$$2 \times 5 = 10$$

Ans: $\frac{5}{6}$ of a dozen is 10.

C. 1. $\frac{1}{2}$ of an hour

$$1 \text{ hour} = 60 \text{ minutes}$$
$$60 \div 2 = 30$$
$$30 \times 1 = 30$$

Ans: $\frac{1}{2}$ of an hour is 30 minutes.

2. $\frac{1}{3}$ of an hour

$$1 \text{ hour} = 60 \text{ minutes}$$
$$60 \div 3 = 20$$
$$20 \times 1 = 20$$

Ans: $\frac{1}{3}$ of an hour is 20 minutes.

3. $\frac{1}{4}$ of an hour

1 hour = 60 minutes
 $60 \div 4 = 15$
 $15 \times 1 = 15$

Ans: $\frac{1}{4}$ of an hour is 15.

4. $\frac{1}{5}$ of an hour

1 hour = 60 minutes
 $60 \div 5 = 12$
 $12 \times 1 = 12$

Ans: $\frac{1}{5}$ of an hour is 12.

5. $\frac{1}{6}$ of an hour

1 hour = 60 minutes
 $60 \div 6 = 10$
 $10 \times 1 = 10$

Ans: $\frac{1}{6}$ of an hour is 10.

6. $\frac{1}{10}$ of an hour

1 hour = 60 minutes
 $60 \div 10 = 6$
 $6 \times 1 = 6$

Ans: $\frac{1}{10}$ of an hour is 6.

7. $\frac{2}{3}$ of an hour

1 hour = 60 minutes
 $60 \div 3 = 20$
 $20 \times 2 = 40$

Ans: $\frac{2}{3}$ of an hour is 40.

8. $\frac{3}{4}$ of an hour

1 hour = 60 minutes
 $60 \div 4 = 15$
 $15 \times 3 = 45$

Ans: $\frac{3}{4}$ of an hour is 45.

9. $\frac{1}{6}$ of an hour

1 hour = 60 minutes
 $60 \div 6 = 10$
 $10 \times 1 = 10$

Ans: $\frac{1}{6}$ of an hour is 10.

D. 1. Number of red bicycles = $\frac{1}{3}$ of 12
 $= 12 \div 3 = 4$
 $= 4 \times 1 = 4$
 $= \frac{1}{3}$ of 12 = 4

Ans: 4 bicycles were red.

2. Number of roses = $\frac{3}{4}$ of 28

$= 28 \div 4$
 $= 3 \times 7 = 21$
 $= \frac{3}{4}$ of 28 = 21

Ans: There were 21 roses.

3. Number of baked cakes = 36

$= 36 - 18 = 18$

Ans: 18 cakes were sold.

4. Number of sheets = $\frac{3}{5}$ of 70

$= 70 \div 5 = 14$
 $= 14 \times 3 = 42$

Ans: The class have 42 craft sheets for work.

Exercise 8.3

A. 1. $\frac{5}{10}$ 2. $\frac{3}{12}$ 3. $\frac{4}{12}$ 4. $\frac{3}{3} = \frac{3}{18}$ 5. $\frac{2}{2} = \frac{2}{16}$ 6. $\frac{5}{5} = \frac{15}{20}$

7. $\frac{5}{5} = \frac{10}{25}$ 8. $\frac{3}{3} = \frac{3}{27}$ 9. $\frac{2}{2} = \frac{6}{16}$

B. 1. $\frac{2}{4}$ 2. $\frac{3}{6}$ 3. $\frac{4}{8}$ 4. $\frac{2}{6}$ 5. $\frac{2}{8}$ 6. $\frac{6}{9}$ 7. $\frac{6}{8}$ 8. $\frac{3}{12}$ 9. $\frac{10}{10}$

Exercise 8.4

A. 1. $\frac{2}{3}$ 2. $\frac{3}{5}$ 3. $\frac{3}{4}$ 4. $\frac{2}{2} = \frac{5}{8}$ 5. $\frac{5}{5} = \frac{3}{2}$ 6. $\frac{8}{8} = \frac{1}{2}$

B. 1. Factors of 4 = 1, 2, 4

Factors of 6 = 1, 2, 3

Common factors = 1, 2

$\frac{4}{6}$ is not in its simplest form as, 2 is a common factor.

2. Factors of 5 = 1, 5

Factors of 7 = 1, 7

Common factors = 1

$\frac{5}{7}$ is in its simplest form as, "1" is the only common factor.

3. Factors of 8 = 1, 2, 4

Factors of 9 = 1, 3

Common factors = 1

$\frac{8}{9}$ is in its simplest form as, "1" is the only common factor.

4. Factors of 16 = 1, 2, 4

Factors of 20 = 1, 2, 4, 5, 10

Common factors = 1, 2, 4

$\frac{16}{20}$ is not in its simplest form as, "1, 2, 4" is a common factor.

5. Factors of 5 = 1, 5

Factors of 25 = 1, 5

Common factors = 1, 5

$\frac{5}{25}$ is not in its simplest form as, 1, 5 is a common factor.

6. Factors of 12 = 1, 2, 3, 4, 6

Factors of 18 = 1, 2, 3, 6, 9

Common factors = 1, 2, 3, 6

$\frac{12}{18}$ is not in its simplest form as, 1, 2, 3 is a common factor.

7. Factors of 7 = 1, 7

Factors of 15 = 1, 3, 5, 15

Common factors = 1

$\frac{7}{15}$ is not in its simplest form as, 1 is the only common factor.

8. Factors of 6 = 1, 2, 3, 6

Factors of 11 = 1, 11

8. Factors of 6 = 1, 2, 3, 6

Factors of 11 = 1, 11

Common factors = 1

$\frac{6}{11}$ is in its simplest form as, 1 is the only common factor.

9. Factors of 3 = 1, 3

Factors of 30 = 1, 3, 5, 6

Common factors = 1, 3

$\frac{3}{30}$ is not in its simplest form as, 1, 3 is a common factor.

10. Factors of 1 = 1

Factors of 4 = 1, 2, 4

Common factors = 1

$\frac{1}{4}$ is in its simplest form as, 1 is a common factor.

11. Factors of 11 = 1, 11

Factors of 19 = 1, 19

Common factors = 1

$\frac{11}{19}$ is in its simplest form as, 1 is the only common factor.

12. Factors of 6 = 1, 2, 3

Factors of 9 = 1, 3

Common factors = 1, 3

$\frac{6}{9}$ is in its simplest form as, 1, 3 is a common factor.

13. Factors of 10 = 1, 2, 5

Factors of 50 = 1, 5, 10

Common factors = 1

$\frac{10}{50}$ is in its simplest form as, 1 is the only common factor.

14. Factors of 1 = 1

Factors of 6 = 1, 2, 3

Common factors = 1

$\frac{1}{6}$ is in its simplest form as, 1 is the only common factor.

15. Factors of 2 = 1, 2

Factors of 10 = 1, 2, 5, 10

Common factors = 1, 2

$\frac{2}{10}$ is not in its simplest form as, 1, 2 is a common factor.

C. 1. $\frac{5}{10} \div \frac{5}{5} = \frac{1}{2}$ Ans

2. $\frac{9}{12} \div \frac{3}{3} = \frac{3}{4}$ Ans

3. $\frac{15}{20} \div \frac{5}{5} = \frac{3}{4}$ Ans

4. $\frac{24}{30} \div \frac{6}{6} = \frac{4}{5}$ Ans

5. $\frac{15}{30} \div \frac{5}{5} = \frac{3}{6} \div \frac{3}{3} = \frac{1}{2}$ Ans

6. $\frac{18}{27} \div \frac{3}{3} = \frac{6}{9} \div \frac{3}{3} = \frac{2}{3}$ Ans

7. $\frac{9}{18} \div \frac{3}{3} = \frac{3}{6} \div \frac{3}{3} = \frac{1}{2}$ Ans

8. $\frac{27}{36} \div \frac{3}{3} = \frac{9}{12} \div \frac{3}{3} = \frac{3}{4}$ Ans

9. $\frac{40}{48} \div \frac{8}{8} = \frac{5}{6}$ Ans

10. $\frac{36}{81} \div \frac{9}{9} = \frac{4}{9}$ Ans

11. $\frac{14}{35} \div \frac{7}{87} = \frac{2}{5}$

12. $\frac{22}{44} \div \frac{11}{11} = \frac{2}{4} \div \frac{2}{2} = \frac{1}{2}$ Ans

13. $\frac{35}{70} \div \frac{5}{5} = \frac{7}{14} \div \frac{7}{7} = \frac{1}{2}$ Ans

14. $\frac{42}{49} \div \frac{7}{7} = \frac{6}{7}$ Ans

15. $\frac{21}{42} \div \frac{7}{7} = \frac{3}{6} \div \frac{3}{3} = \frac{1}{2}$ Ans

Exercise 8.5

A. 1. $\frac{1}{7}$ smallest fraction

2. $\frac{6}{12}$ smallest fraction

3. $\frac{4}{13}$ smallest fraction

4. $\frac{1}{9}$ smallest fraction

5. $\frac{2}{4}$ smallest fraction

B. Do yourself.

C. 1. >, 2. >, 3. <, 4. <, 5. >, 6. <

D. 1. $\frac{8}{8}, \frac{7}{8}, \frac{3}{8}, \frac{1}{8}$

2. $\frac{5}{6}, \frac{4}{6}, \frac{2}{6}, \frac{1}{6}$

3. $\frac{10}{10}, \frac{9}{10}, \frac{7}{10}, \frac{3}{10}$

4. $\frac{4}{5}, \frac{3}{5}, \frac{2}{5}, \frac{1}{5}$

Exercise 8.6

A. 1.

Denominator \rightarrow $4 \overline{) \begin{array}{r} 2 \\ 9 \\ 8 \\ 1 \end{array}}$ \leftarrow Whole number
 \leftarrow New numerator

2.

Denominator \rightarrow $2 \overline{) \begin{array}{r} 2 \\ 5 \\ 4 \\ 1 \end{array}}$ \leftarrow Whole number
 \leftarrow New numerator

3.

Denominator \rightarrow $3 \overline{) \begin{array}{r} 2 \\ 7 \\ 6 \\ 1 \end{array}}$ \leftarrow Whole number
 \leftarrow New numerator

4.

Denominator \rightarrow $5 \overline{) \begin{array}{r} 1 \\ 8 \\ 5 \\ 3 \end{array}}$ \leftarrow Whole number
 \leftarrow New numerator

5.

Denominator \rightarrow $10 \overline{) \begin{array}{r} 1 \\ 15 \\ 10 \\ 5 \end{array}}$ \leftarrow Whole number
 \leftarrow New numerator

6. Denominator \rightarrow
$$\begin{array}{r} 2 \\ 5 \overline{) 14} \\ \underline{10} \\ 4 \end{array}$$
 \leftarrow Whole number

$$\underline{\underline{\frac{10}{4}}} \leftarrow$$
 New numerator

7. Denominator \rightarrow
$$\begin{array}{r} 2 \\ 4 \overline{) 11} \\ \underline{8} \\ 3 \end{array}$$
 \leftarrow Whole number

$$\underline{\underline{\frac{8}{3}}} \leftarrow$$
 New numerator

8. Denominator \rightarrow
$$\begin{array}{r} 6 \\ 3 \overline{) 20} \\ \underline{18} \\ 2 \end{array}$$
 \leftarrow Whole number

$$\underline{\underline{\frac{18}{2}}} \leftarrow$$
 New numerator

B. 1. $1\frac{1}{4}$ to an improper fraction.

$$1\frac{1}{4} = \frac{1 \times 4 + 1}{4}$$

$$= \frac{4 + 1}{4} = \frac{5}{4}$$

2. $1\frac{2}{3}$ to an improper fraction.

$$1\frac{2}{3} = \frac{1 \times 3 + 2}{3}$$

$$= \frac{3 + 2}{3} = \frac{5}{3}$$

3. $2\frac{1}{2}$ to an improper fraction.

$$2\frac{1}{2} = \frac{2 \times 2 + 1}{2}$$

$$= \frac{4 + 1}{2} = \frac{5}{2}$$

4. $2\frac{1}{4}$ to an improper fraction.

$$2\frac{1}{4} = \frac{2 \times 4 + 1}{4}$$

$$= \frac{8 + 1}{4} = \frac{9}{4}$$

5. $2\frac{3}{4}$ to an improper fraction.

$$2\frac{3}{4} = \frac{2 \times 4 + 3}{4}$$

$$= \frac{8 + 3}{4} = \frac{11}{4}$$

6. $2\frac{2}{3}$ to an improper fraction.

$$2\frac{2}{3} = \frac{2 \times 3 + 2}{3}$$

$$= \frac{6 + 2}{3} = \frac{8}{3}$$

7. $3\frac{1}{2}$ to an improper fraction.

$$3\frac{1}{2} = \frac{3 \times 2 + 1}{2}$$

$$= \frac{6 + 1}{2} = \frac{7}{2}$$

8. $3\frac{2}{3}$ to an improper fraction.

$$3\frac{2}{3} = \frac{3 \times 3 + 2}{3}$$

$$= \frac{9 + 2}{3} = \frac{11}{3}$$

C. 1. $\frac{2}{1}$ 2. $\frac{3}{1}$ 3. $\frac{5}{1}$ 4. $\frac{7}{1}$ 5. $\frac{9}{1}$ 6. $\frac{8}{1}$ 7. $\frac{10}{1}$ 8. $\frac{4}{1}$

D. 1, 2, 2, 3, 3, 2, 4, 3, 5, 4, 6, 2, 7, 3, 8, 2

Exercise 8.7

A. 1. $\frac{1}{10} + \frac{5}{10}$

$$= \frac{1 + 5}{10}$$

$$= \frac{6}{10} \div \frac{2}{2} = \frac{3}{5}$$

$$= \frac{3}{5} \text{ Ans}$$

3. $\frac{3}{6} + \frac{1}{6}$

$$= \frac{3 + 1}{6}$$

$$= \frac{4}{6} \div \frac{2}{2} = \frac{2}{3}$$

$$= \frac{2}{3} \text{ Ans}$$

5. $2 + 1 + \frac{1}{2}$

$$= 3 + \frac{1}{2} = 3 + \frac{1}{2}$$

$$= 3\frac{1}{2} \text{ Ans}$$

7. $1\frac{1}{2} + \frac{1}{2}$

$$= 1 + \frac{1}{2} + \frac{1}{2}$$

$$= 1 + \frac{1 + 1}{2}$$

$$= 1 + \frac{2}{2} = 1\frac{2}{2}$$

$$= 1\frac{2}{2} \text{ Ans}$$

2. $\frac{2}{7} + \frac{3}{7}$

$$= \frac{2 + 3}{7}$$

$$= \frac{5}{7} \div \frac{1}{1} = \frac{5}{7}$$

$$= \frac{5}{7} \text{ Ans}$$

4. $\frac{1}{4} + \frac{1}{4}$

$$= \frac{1 + 1}{4}$$

$$= \frac{2}{4} \div \frac{2}{2} = \frac{1}{2}$$

$$= \frac{1}{2} \text{ Ans}$$

6. $1\frac{1}{8} + 1\frac{1}{8}$

$$= 1 + 1 + \frac{1}{8} + \frac{3}{8}$$

$$= 2 + \frac{1 + 3}{8}$$

$$= 2 + \frac{4}{8} = 2 + \frac{4}{8}$$

$$= 2\frac{4}{8} \text{ Ans}$$

8. $1 + \frac{1}{5} + \frac{3}{5}$

$$= 1 + \frac{1}{5} + \frac{3}{5}$$

$$= 1 + \frac{1 + 3}{5}$$

$$= 1 + \frac{4}{5} = 1\frac{4}{5}$$

$$= 1\frac{4}{5} \text{ Ans}$$

$$\begin{aligned} \text{B. 1. } & \frac{4}{5} - \frac{3}{5} \\ & = \frac{4-3}{5} \\ & = \frac{1}{5} \div \frac{1}{1} = \frac{1}{5} \\ & = \frac{1}{5} \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{2. } & \frac{4}{9} - \frac{1}{9} \\ & = \frac{4-1}{9} \\ & = \frac{3}{9} \div \frac{1}{3} = \frac{1}{3} \\ & = \frac{1}{3} \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{3. Add} &= \frac{2}{5} + \frac{3}{5} \\ &= \frac{2}{5} + \frac{3}{5} \\ &= \frac{2+3}{5} \\ &= \frac{5}{5} \div \frac{5}{5} = 1 \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{4. Add} &= \frac{1}{4} + \frac{1}{4} \\ &= 1 + \frac{1}{4} + \frac{1}{4} \\ &= 1 + \frac{1+1}{4} \\ &= 19 \frac{2}{4} \div \frac{2}{2} = \frac{1}{2} = 1 \frac{1}{2} \end{aligned}$$

$$\begin{aligned} \text{3. } & \frac{5}{8} - \frac{0}{8} \\ & = \frac{5-0}{8} \\ & = \frac{5}{8} \div \frac{1}{4} = \frac{5}{8} \\ & = \frac{5}{8} \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{4. } & \frac{3}{6} - \frac{1}{6} \\ & = \frac{3-1}{6} \\ & = \frac{2}{6} \div \frac{1}{2} = \frac{1}{3} \\ & = \frac{1}{3} \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{5. Add} &= \frac{2}{8} + \frac{1}{8} \\ &= \frac{2+1}{8} \\ &= \frac{3}{8} \div \frac{5}{5} \\ \text{Ans} &= \frac{3}{8} \text{ length of the red ribbon.} \end{aligned}$$

$$\begin{aligned} \text{5. } & \frac{2 \times 6 + 2}{6} - \frac{1 \times 6 + 5}{6} \\ & = \frac{12+2}{6} - \frac{6+5}{6} \\ & = \frac{14}{6} - \frac{11}{6} = \frac{14-11}{6} \\ & = \frac{3}{6} \div \frac{3}{3} = \frac{1}{2} \\ & = \frac{1}{2} \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{6. } & \frac{3 \times 2 + 1}{2} - \frac{2 \times 2 + 1}{2} \\ & = \frac{6+1}{2} - \frac{4+1}{2} \\ & = \frac{7}{2} - \frac{5}{2} = \frac{7-5}{2} \\ & = \frac{2}{2} \div \frac{2}{2} = 1 \\ & = \frac{1}{1} \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{6. Add} &= \frac{3}{4} - \frac{1}{4} \\ &= \frac{3-1}{4} \\ &= \frac{2}{4} \div \frac{2}{2} = \frac{1}{2} \\ \text{Ans} &= \text{The rice of light} = \frac{1}{2}. \end{aligned}$$

$$\begin{aligned} \text{7. Subtract} &= \frac{1}{4} - \frac{3}{4} \\ &= \frac{1-3}{4} \\ &= \frac{2}{4} \div \frac{2}{2} = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} \text{7. } & \frac{1 \times 9 + 4}{9} - \frac{8}{9} \\ & = \frac{9+9}{9} - \frac{8}{9} \\ & = \frac{13}{9} - \frac{8}{9} \\ & = \frac{13-8}{9} = \frac{5}{9} \\ & = \frac{5}{9} \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{8. } & \frac{7 \times 4 + 3}{4} - \frac{7 \times 4 + 1}{4} \\ & = \frac{28+3}{4} - \frac{28+1}{4} \\ & = \frac{31}{4} - \frac{29}{4} = \frac{31-29}{4} \\ & = \frac{2}{4} \div \frac{2}{2} = \frac{1}{2} \\ & = \frac{1}{2} \text{ Ans} \end{aligned}$$

$$\begin{aligned} \text{8. } & \frac{2 \times 5 + 1}{5} - \frac{1 \times 5 + 3}{5} \\ & = \frac{10+1}{5} - \frac{5+3}{5} \\ & = \frac{11}{5} - \frac{8}{5} \\ & = \frac{11-8}{5} \\ \text{Ans} &= \frac{3}{5} \text{ ribbon was left.} \end{aligned}$$

$$\begin{aligned} \text{C. 1. Add} &= \frac{1}{4} + \frac{1}{4} \\ &= \frac{1}{4} + \frac{1}{4} \\ &= \frac{1+1}{4} \\ &= \frac{2}{4} \div \frac{2}{2} = \frac{1}{2} \\ \text{Ans: } & \frac{1}{2} \text{ are days.} \end{aligned}$$

$$\begin{aligned} \text{2. Add} &= 1 \frac{1}{4} + \frac{3}{4} \\ &= 1 \frac{1}{4} + \frac{3}{4} \\ &= 1 + \frac{1}{4} + \frac{3}{4} \\ &= 1 + \frac{1+3}{4} \\ &= 1 + \frac{4}{4} = \frac{2}{2} \div \frac{2}{2} = 1 \frac{1}{2} \end{aligned}$$

$$\begin{aligned} \text{9. } & \frac{2 \times 4 + 1}{4} - \frac{3}{4} \\ &= \frac{8+1}{4} - \frac{3}{4} \\ &= \frac{9}{4} - \frac{3}{4} \\ &= \frac{9-3}{4} = \frac{6}{4} \\ &= \frac{6}{4} \div \frac{2}{2} = \frac{3}{2} \div \frac{1}{2} \\ \text{Ans} &= \frac{3}{2} \text{ juice was left in the bottle.} \end{aligned}$$

$$\begin{aligned}
 10. \quad & \frac{1 \times 5 + 1}{5} - \frac{2}{5} \\
 & = \frac{5 + 1}{5} - \frac{2}{5} \\
 & = \frac{6}{5} - \frac{2}{5} \\
 & = \frac{6 - 2}{5} \\
 & = \frac{4}{5}
 \end{aligned}$$

Ans = $\frac{4}{5}$ Suresh's height.

9. Geometry

Exercise 9.1

1. (a) 8 (b) 10 (c) 11 (d) 12
 2. (a) ✗ (b) ✓ (c) ✗ (d) ✓
 3. (a) ✗ (b) ✓ (c) ✗ (d) ✓

Exercise 9.2

Do yourself.

Exercise 9.3

1. (a) O (b) OA, OX and OY
 (c) Diameter (d) chord
 (e) Radius (f) Boundary
2. **Diameter** **Radius**
 (a) 30 cm 15 cm
 (b) 42 dm 21 dm
 (c) 4 m 2 m
 (d) 18 cm 9 cm
 (e) 24 dm 12 dm
 (f) 80 dm 40 dm
 (g) 18 cm 9 cm
 (h) 28 m 14 m
3. Do yourself.
 4. a. (F), b. (F), c. (T), d. (T), e. (T)

Exercise 9.4

Do yourself.

Exercise 9.5

1. a. 2, b. 3, c. 6, f. 1
 2. a. (F), b. (T), c. (T), d. (F), e. (T)
 3. Do yourself.

Exercise 9.6

1. a
 2. a. 4, b. 6 c. 6, d. (ii)

Exercise 9.7

1. a. Front view side view Top view
 b. Side view Top view Front view
 c. Top view Front view Side view
2. a. side view, b. Top view, c. Front view, d. Front view

10. Money

Exercise 10.1

- A. 1. 900 p, 2. 615 p 3. 1000 p 4. 3225 p

5. 10000 p 6. 4070 p 7. 705 p 8. 151 p
 9. 1850 p

- B. 1. ₹ 5 2. ₹ 100 3. ₹ 16 4. ₹ 15.45
 5. ₹ 5.15 6. ₹ 27.50 7. ₹ 70.35 8. ₹ 9.25

- C. 1. >, 2. <, 3. <, 4. <, 5. <, 6. <, 7. =, 8. =, 9. >, 10. <

- D. 1. ₹ 150 2. ₹ 2.00 3. ₹ 130 4. ₹ 100
 5. ₹ 2025

Exercise 10.2

- A. 1. ₹ 98 2. ₹ 4 3. ₹ 30.75 4. ₹ 10.10
 5. ₹ 6.75 6. ₹ 15

- B. Do yourself.

11. Measurement

Exercise 11.1

1. Do yourself.
 2. a. 8 m
 1 m = 100 cm
 8 m = (8 × 100) cm = 800 cm
 b. 14 m
 1 m = 100 cm
 14 m = (14 × 100) cm = 1400 cm
 c. 2 m 36 cm
 = 2 m + 36 cm
 = (2 × 100) cm + 36 cm
 = 200 cm + 36 cm = 236 cm
 d. 15 m
 15 m = 100 cm
 15 m = (15 × 100) cm = 1500 cm
 e. 16 m 4 cm
 = 16 m + 4 cm
 = (16 × 100) cm + 4 cm
 = 1600 cm + 4 cm = 1604 cm
 f. 22 m 96 cm
 = 22 m + 96 cm
 = (22 × 100) cm + 96 cm
 = 2200 cm + 96 cm = 2296 cm
3. a. 500 cm
 1 cm = (1 ÷ 100) m
 500 cm = (500 ÷ 100) m = 5 m
 b. 1295 cm
 = 1200 cm + 95 cm
 = (1200 ÷ 100) m + 95 cm
 = 12 m + 95 cm
 = 12 m 95 cm
 c. 1800 cm
 = 1 cm = (1 ÷ 100) m
 = (1800 ÷ 100) m + 18 cm
 = 18 m + 18 cm
 d. 7 km 355 m
 = 7 km + 355 m
 = (7 × 1000) m + 355 m
 = 7000 m + 355 = 7355 m

e. 965 cm
 = 900 cm + 65 cm
 = (900 ÷ 1000) m + 355 cm
 = 7000 m + 355 cm = 7355 m

f. 23 km 85 m
 = 23 km + 85 m
 = (23 × 1000) m + 85 m
 = 23000 m + 85 m
 = 23085 m

4. a. 4000 m
 1 m (1 ÷ 1000) km
 4000 m = (4000 ÷ 1000) km
 4 km

b. 26000 m
 1 m (1 ÷ 1000) km
 26000 m = (26000 ÷ 1000) km
 26 km

c. 8565 m
 = 8000 m + 565 m
 = (8000 ÷ 1000) + 565 m
 = 8 km 565 m

d. 1000 m
 1 m (1 ÷ 1000) km
 1000 m = (1000 ÷ 1000) km
 1 km

e. 2154 m
 = 2000 m + 154 m
 = (2000 ÷ 1000) + 154 m
 = 2 km 154 m

f. 11113 m
 = 11000 m + 113 m
 = (11000 ÷ 1000) + 113 m
 = 11 km 113 m

Exercise 11.2

1. a.
$$\begin{array}{r} 15833 \\ + 6587 \\ \hline 22420 \end{array}$$

 = 224 m 20 cm

b.
$$\begin{array}{r} 36996 \\ + 40906 \\ \hline 77902 \end{array}$$

 = 779 m 2 cm

c.
$$\begin{array}{r} 27719 \\ + 32086 \\ \hline 59805 \end{array}$$

 = 59 km 805 m

d.
$$\begin{array}{r} 491190 \\ + 32045 \\ \hline 523235 \end{array}$$

 = 523 km 235 m

2. a.
$$\begin{array}{r} 34253 \\ + 28969 \\ \hline 63222 \end{array}$$

 = 632 m 22 cm

b.
$$\begin{array}{r} 28676 \\ + 68578 \\ \hline 97254 \end{array}$$

 = 972 m 54 cm

c.
$$\begin{array}{r} 4125 \\ + 3998 \\ \hline 8123 \end{array}$$

 = 81 km 23 m

d.
$$\begin{array}{r} 19718 \\ + 5109 \\ \hline 24927 \end{array}$$

 = 249 km 27 m

3. a.
$$\begin{array}{r} 8425 \\ - 4537 \\ \hline 3888 \end{array}$$

 = 38 m 88 cm

b.
$$\begin{array}{r} 56318 \\ - 18724 \\ \hline 37594 \end{array}$$

 = 375 m 94 cm

c.
$$\begin{array}{r} 11679 \\ - 9549 \\ \hline 2130 \end{array}$$

 = 2 km 130 m

d.
$$\begin{array}{r} 14690 \\ - 9180 \\ \hline 5510 \end{array}$$

 = 55 km 10 m

4. a.
$$\begin{array}{r} 8242 \\ - 4338 \\ \hline 3904 \end{array}$$

 = 39 m 4 cm

b.
$$\begin{array}{r} 11298 \\ - 9999 \\ \hline \hline \end{array}$$

 = 12 m 99 cm

c.
$$\begin{array}{r} 2411 \\ - 1532 \\ \hline 0879 \end{array}$$

 = 8 km 79 m

d.
$$\begin{array}{r} 9801 \\ - 2190 \\ \hline 7611 \end{array}$$

 = 76 km 11 m

5. Distance covered by first to walk = 150 m
 Distance covered by to travel rickshaw = 1800 m
 She has to cross a wide road = 50
 150 + 50 + 1800
 = 2000 km

Total distance Kamini has to cover = 2 km

6. Length of one part of a broken tree = 6 m 35 cm
 = 635 cm
 Length of other part is = 11 m 85 cm
 = 1185 cm
 = 635 + 1185
 = 1820 cm

total length of the tree = 18 m 20 cm

7. Length of one side of a square park = 29 m 75 cm
 = 2975 cm
 Length of 4 side = 2975 cm × 4
 = 119 m

length of four sides are = 119 m

8. Shyam's long jump is = 4 m 60 cm = 460 cm
 Shanu's long jump is = 3 m 48 cm = 348 cm
 460 – 348
 = 1120 m

Shyam long jump = 1 m 12 cm is

9. Zaheer covers in 6 days = 18 km 969 m
 = 18969
 In one day covers distance.
 = 18969 ÷ 6
 = 3161

3 km 161 m distance cover

Exercise 11.3

1. Do yourself.

2. a. 7 kg
 $= (7 \times 1000) \text{ g}$
 $= 7000 \text{ g}$
- b. 23 kg 500 g
 $= (23 \times 1000) + 500 \text{ g}$
 $= 23000 \text{ g} + 500 \text{ g}$
 $= 23500 \text{ g}$
- c. 100 kg
 $= (100 \times 1000) \text{ g}$
 $= 100000$
- d. 46 kg 950 g
 $= (46 \times 1000) + 950 \text{ g}$
 $= 46000 \text{ g} + 950 \text{ g}$
 $= 46950 \text{ g}$
- e. 64 kg
 $= (64 \times 1000) \text{ g}$
 $= 64000 \text{ g}$
- f. 10 kg 60 g
 $= (10 \times 1000) + 60 \text{ g}$
 $= 10,000 \text{ g} + 60 \text{ g}$
 $= 10060 \text{ g}$

3. a. 6000 g
 $= (6000 \div 1000) \text{ kg}$
 $= 6 \text{ kg}$
- b. 1280 g
 $= 12000 \text{ g} + 80 \text{ g}$
 $= (12000 \times 1000) + 80 \text{ g}$
 $= 1 \text{ kg} + 280 \text{ g}$
- c. 6846 g
 $= 6000 \text{ g} + 846 \text{ g}$
 $= (6000 \times 1000) + 846 \text{ g}$
 $= 6 \text{ kg} + 846 \text{ g}$
 $= 6 \text{ kg} 846 \text{ g}$
- d. 3495 g
 $= 3000 \text{ g} + 495 \text{ g}$
 $= (3000 \times 1000) + 495 \text{ g}$
 $= 3 \text{ kg} + 495 \text{ g}$
 $= 3 \text{ kg} 495 \text{ g}$
- e. 5000 g
 $= (5000 \div 1000) \text{ kg}$
 $= 5 \text{ kg}$
- f. 1450 g
 $= 14000 \text{ g} + 50 \text{ g}$
 $= (14000 \div 1000) + 50 \text{ g}$
 $= 14 \text{ kg} + 50 \text{ g}$
 $= 1 \text{ kg} 450 \text{ g}$

Exercise 11.4

1. a.
$$\begin{array}{r} 29254 \\ + 32964 \\ \hline 62218 \end{array}$$

 $= 62 \text{ kg} 218 \text{ g}$
- b.
$$\begin{array}{r} 421238 \\ + 58139 \\ \hline 479377 \end{array}$$

 $= 479 \text{ kg} 377 \text{ g}$

c.
$$\begin{array}{r} 73128 \\ + 47374 \\ \hline 120502 \end{array}$$

 $= 120 \text{ kg} 502 \text{ g}$

d.
$$\begin{array}{r} 50190 \\ + 98201 \\ \hline 148391 \end{array}$$

 $= 148 \text{ kg} 391 \text{ g}$

2. a.
$$\begin{array}{r} 14469 \\ + 15854 \\ \hline 30323 \end{array}$$

 $= 30 \text{ kg} 323 \text{ g}$

b.
$$\begin{array}{r} 83698 \\ + 14369 \\ \hline 98067 \end{array}$$

 $= 98 \text{ kg} 67 \text{ g}$

c.
$$\begin{array}{r} 18750 \\ + 23850 \\ \hline 42600 \end{array}$$

 $= 42 \text{ kg} 600 \text{ g}$

d.
$$\begin{array}{r} 91300 \\ + 28700 \\ \hline 120000 \end{array}$$

 $= 120 \text{ kg}$

3. a.
$$\begin{array}{r} 79692 \\ - 12799 \\ \hline 66893 \end{array}$$

 $= 66 \text{ kg} 893 \text{ g}$

b.
$$\begin{array}{r} 999 \\ - 119 \\ \hline 880 \end{array}$$

 $= 8 \text{ kg} 80 \text{ g}$

c.
$$\begin{array}{r} 239530 \\ - 35629 \\ \hline 203901 \end{array}$$

 $= 203 \text{ kg} 901 \text{ g}$

d.
$$\begin{array}{r} 200700 \\ - 117601 \\ \hline 83999 \end{array}$$

 $= 83 \text{ kg} 99 \text{ g}$

4. a.
$$\begin{array}{r} 29196 \\ - 19556 \\ \hline 09640 \end{array}$$

 $= 9 \text{ kg} 640 \text{ g}$

b.
$$\begin{array}{r} 71212 \\ - 62674 \\ \hline 8538 \end{array}$$

 $= 8 \text{ kg} 538 \text{ g}$

c.
$$\begin{array}{r} 99200 \\ - 49308 \\ \hline 49892 \end{array}$$

 $= 49 \text{ kg} 892 \text{ g}$

d.
$$\begin{array}{r} 39301 \\ - 10134 \\ \hline 29167 \end{array}$$

 $= 29 \text{ kg} 167 \text{ g}$

5. Bought of cookies = 4 kg 170 g
Consumed of cookies = 3 kg 345 g
 $= 4 \text{ kg} 170 \text{ g} - 3 \text{ kg} 345 \text{ g}$
 $= 4170 - 3345$
 $= 825$
Quantity of cookies left is = 825 g
6. Father of weights = 72 kg 162 g
Mother of weights = 65 kg 78 g
Son of weights = 38 kg 47 g
 $= 72 \text{ kg} 162 \text{ g} + 65 \text{ kg} 78 \text{ g} + 38 \text{ kg} 47 \text{ g}$
 $= 72162 + 6578 + 3847 = 82587$
total weight is = 82 kg 587 g
7. Weight of empty container is = 9 kg 185 g
Weight of rice container is = 16 kg 135 g
 $9 \text{ kg} + 16 \text{ kg} 135 \text{ g}$
 $9185 + 16135 = 25,320$
total weight container with rice = 25 kg 320 g

8. A man now weight = 74 kg 110 g
Less than before weight = 6 kg 227 g
74 kg 110 g + 6 kg 227 g
74100 + 6227 = 80337

His weight before is = 80 kg 337 g

9. Weight of one basket is = 1 kg 725 g
Weight of 4 basket = ?

1 kg 725 g \times 4
1725 \times 4 = 6,900

4 basketed weight of is = 6 kg 900 g

10. Sushma has salt = 2 kg 400 g

Packet of 400 g = ?

2 kg 400 g \div 400 g
2400 \div 400 = 6 packet

She makes packets for salt = 6 packets.

Exercise 11.5

1. a. (✗), b. (✗), c. (✗), d. (✓)

2. a. 400 b. 100

3. Weight of mother dog and three puppies = 6 kg
Mother dogs weight = puppies weight
mother dogs weight = ?
6 kg 3 = 3 kg

The mother dogs wight is = 3 kg

4. Weight of 3 pears = 1 kg
Weight of 6 strawberry = 1 kg
total weight = 1 + 1
= 2 kg

Exercise 11.6

1. a. ml b. L c. L d. ml

e. ml

2. a. 4 L
= (4 \times 1000) ml
= 4000 ml

b. 21 L 720 ml
= 21 L + 720 ml
= (21 \times 1000) ml + 720 ml
= 21000 ml + 720 ml
= 21720 ml

c. 32 L
= (32 \times 1000) ml
= 32000 ml

d. 70 L 200 ml
= 70 L + 200 ml
= (70 \times 1000) ml + 200 ml
= 70,000 ml + 200 ml
= 70200 ml

e. 5 L 50 ml
= 5 L + 50 ml
= (5 \times 1000) ml + 50 ml
= 5000 ml + 50 ml
= 5050 ml

f. 22 L
= (22 \times 1000) ml
= 22000 ml

3. a. 7000 ml
= (7000 ml \div 1000) L
= 7 L

b. 1440 ml
= 1000 ml + 440 ml
= (1000 ml \div 1000) L + 440 ml
= 1 L 440 ml

c. 8945 ml
= 8900 ml + 945 ml
= (8000 \div 1000) L + 945 ml
= 8 L 945 ml

d. 2020 ml
= 2000 ml + 20 ml
= (2000 ml \div 1000) L + 20 ml
= 2 L 20 ml

e. 6005 ml
= 6000 ml + 5 ml
= (6000 ml \div 1000) L + 5 ml
= 6 L 5 ml

f. 3000 ml
= (3000 ml \div 1000)
= 3 L

Exercise 11.7

1. a. 8 6 7 5
 + 9 5 8 5

 1 8 2 6 0
= 18 L 260 ml

b. 4 3 5 4 9
 + 2 7 6 5 8

 7 1 2 0 7
= 71 L 207 ml

c. 2 5 5 0 0
 1 4 4 5
 + 7 2 5 5

 3 4 2 0 0
= 34 L 200 ml

2. a. 8 4 9 5
 + 1 7 5 4

 1 0 2 4 9
= 10 L 249 ml

b. 1 3 6 0 0
 + 8 1 8 5 0

 9 5 4 5 0
= 95 L 450 ml

c. 2 3 6 5 0
 + 1 5 7 4 0

 3 9 3 9 0
= 39 L 390 ml

d. 1 9 1 5 0
 + 2 0 6 0

 2 1 2 1 0
= 21 L 210 ml

3. a. 6 5 2 5 0
 - 2 3 6 0 0

 4 1 6 5 0
= 41 L 650 ml

b. 2 5 3 7 0
 - 9 7 8 4

 1 5 5 8 6
= 15 L 586 ml

$$\begin{array}{r} c. \quad 23125 \\ - 18789 \\ \hline 4336 \\ = 4 \text{ L } 336 \text{ ml} \end{array}$$

$$\begin{array}{r} d. \quad 40021 \\ - 3116 \\ \hline 36905 \\ = 36 \text{ L } 905 \text{ ml} \end{array}$$

$$\begin{array}{r} 4. \text{ a.} \quad 68255 \\ - 23600 \\ \hline 44655 \\ = 44 \text{ L } 655 \text{ ml} \end{array}$$

$$\begin{array}{r} b. \quad 435 \\ - 178 \\ \hline 257 \\ = 2 \text{ L } 57 \text{ ml} \end{array}$$

$$\begin{array}{r} c. \quad 13765 \\ - 2053 \\ \hline 11712 \\ = 11 \text{ L } 712 \text{ ml} \end{array}$$

$$\begin{array}{r} d. \quad 91309 \\ - 39912 \\ \hline 51397 \\ = 51 \text{ L } 397 \text{ ml} \end{array}$$

5. Anu's family consumer of water = 48 L 750 ml
Surbhi's family consumer of water = 33 L 985 ml
= 48 L 750 ml + 33 L 985 ml
= 48750 + 33985
= 82735

Ans: Both family consumed water in a day = 82 L 735 ml.

6. Capacity of a tank = 50 L

$$\begin{aligned} \text{Capacity of tank holds water} &= 26 \text{ L } 650 \text{ ml} \\ &= 50 \text{ L} - 26 \text{ L } 650 \text{ ml} \\ &= 50000 - 26650 \\ &= 23,350 \end{aligned}$$

Ans: More water should be fill in the tank = 23 L 350 ml.

7. One bottels contain of honey = 950 ml
and one bottle contain of honey = 760 ml

$$\begin{aligned} 950 \text{ ml} + 760 \text{ ml} \\ 950 + 760 \\ \hline 17,10 \end{aligned}$$

Ans: The big bottle of honey = 1 L 710 ml.

8. Mr. Chopra filled of petrol in scooter = 5 L 750 ml

$$\begin{aligned} \text{Petrol life in the scooter} &= 3 \text{ L } 865 \text{ ml} \\ 5 \text{ L } 750 \text{ ml} - 3 \text{ L } 865 \text{ ml} \\ 5750 - 3865 &= 1.885. \end{aligned}$$

Ans: Scooter consumed petrol is = 1 L 885 ml.

9. Water poured into a tank every minute = 7 L

$$\begin{aligned} \text{Water poured in tank} &= 65 \text{ minutes} \\ 7 \text{ L} \times 65 \text{ minutes} \\ 65 \times 7 &= 455 \end{aligned}$$

Ans: 65 minutes into tank every minutes = 455 L

10. Shopkeeper has shampoo in a bottle = 4 L 338 ml

Shopkeeper divide the shampoo into small container = 6 ml

$$\begin{aligned} 4 \text{ L } 338 \text{ ml} \div 6 \text{ ml} \\ 4338 \div 6 &= 723 \end{aligned}$$

Ans: Shopkeeper need containers for shampoo = 723.

12. Perimeter and Area

Exercise 12.1

1. (a) Perimeter = 4 cm + 2 cm + 2 cm + 4 cm + 2 cm + 5 cm
= 19 cm

$$\begin{aligned} \text{(b) Perimeter} &= 9 \text{ cm} + 5 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 5 \text{ cm} + 3 \\ &\text{cm} + 2 \text{ cm} + 5 \text{ cm} \\ &= 34 \text{ cm} \end{aligned}$$

2. Do yourself.

3. Do yourself.

4. (a) missing length = 9 cm

$$\text{(b) missing length} = 5 \text{ cm}$$

5. Perimeter of ABC = AB, BC, CA

$$\begin{aligned} &= 4 \text{ cm} + 4 \text{ cm} + 5 \text{ cm} \\ &= 13 \text{ cm} \end{aligned}$$

the third side = 5 cm

Exercise 12.2

1. (a) Perimeter = 4 cm + 4 cm + 4 cm + 4 cm
= 16 cm

$$\begin{aligned} \text{(b) Perimeter} &= 2 \text{ cm} + 6 \text{ cm} + 2 \text{ cm} + 6 \text{ cm} \\ &= 16 \text{ cm} \end{aligned}$$

2. (a) Perimeter of ABC = AB + BC + CA
= 14 cm + 26 cm + 13 cm
= 53 cm

$$\begin{aligned} \text{(b) Perimeter of ABC} &= AB + BC + CA \\ &= 14 \text{ cm} + 17 \text{ cm} + 24 \text{ cm} \\ &= 55 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{(c) Perimeter of ABC} &= AB + BC + CA \\ &= 5 \text{ cm} + 4 \text{ cm} + 7 \text{ cm} \\ &= 16 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{(d) Perimeter of ABC} &= AB + BC + CA \\ &= 11 \text{ cm} + 15 \text{ cm} + 19 \text{ cm} \\ &= 45 \text{ cm} \end{aligned}$$

3. Do yourself.

4. (a) Perimeter of the rectangle ABCD

$$4 \text{ cm} + 3 \text{ cm} = 7 \text{ cm}$$

$$\begin{aligned} \text{Using formula} &= \text{Perimeter of the rectangle ABCD} = \\ &2(1 + b) \end{aligned}$$

$$2 \times (4 + 3)$$

$$2 \times 7 = 14 \text{ cm}$$

- (b) Perimeter of the rectangle ABCD

$$12 \text{ cm} + 9 \text{ cm}$$

$$\begin{aligned} \text{Using formula} &= \text{Perimeter of the rectangle ABCD} = \\ &2(1 + b) \end{aligned}$$

$$2 \times (12 + 9)$$

$$2 \times 21 = 42 \text{ cm}$$

- (c) Perimeter of the rectangle ABCD

$$9 \text{ m} + 7 \text{ m}$$

$$\begin{aligned} \text{Using formula} &= \text{Perimeter of the rectangle ABCD} = \\ &2(1 + b) \end{aligned}$$

$$2 \times (9 + 7)$$

$$2 \times 16 = 32 \text{ cm}$$

- (d) Perimeter of the rectangle ABCD

$$6 \text{ cm} + 5 \text{ cm}$$

$$\begin{aligned} \text{Using formula} &= \text{Perimeter of the rectangle ABCD} = \\ &2(1 + b) \end{aligned}$$

$$2 \times (6 + 5)$$

$$2 \times 11 = 22 \text{ cm}$$

5. Perimeter = 30 cm, that is $2 \times (\text{Length} + \text{breadth})$
 = 30 cm
 = Length + breadth = $30 \text{ cm} \div 2 = 15 \text{ cm}$
 = Length = 15 cm – breadth = 15 cm – 9
 = 6 cm

6. (a) The perimeter of the square
 = $4 \times \text{side} = 4 \times 8 \text{ cm} = 32 \text{ cm}$
 (b) The perimeter of the square
 = $4 \times \text{side} = 4 \times 9 \text{ cm} = 36 \text{ cm}$
 (c) The perimeter of the square
 = $4 \times \text{side} = 4 \times 2 \text{ cm} = 8 \text{ cm}$
 (d) The perimeter of the square
 = $4 \times \text{side} = 4 \times 55 \text{ cm} = 220 \text{ cm}$

7. (a) Perimeter = 64 cm, that is $4 \times \text{Length of one side}$
 = 64 cm
 Length of one side = $64 \text{ cm} \div 4$
 = 16 cm
 (b) Perimeter = 80 cm, that is $4 \times \text{Length of one side}$
 = 80 cm
 Length of one side = $80 \div 4$
 = 20 cm
 (c) Perimeter = 120 cm, that is $4 \times \text{Length of one side}$
 = 120 cm
 Length of one side = $120 \div 4$
 = 30 cm
 (d) Perimeter = 512 cm, that is $4 \times \text{Length of one side}$
 = 512 cm
 Length of one side = $512 \div 4$
 = 128 cm

8. The perimeter of the square
 = $4 \text{ side} = 4 \times 40 = 160$
 = 1 m 60 cm
 length of the frame = 1 m 60 cm

9. Cost of fixing barbed wire = ₹ 15 per meter
 square garden one side = 100
 perimeter = $45 = 4 \times 15 = 60$
 Cost of fixing = 60×100
 = 6000

Exercise 12.3

1. (a) Since there are 8 square in the given figure.
 Area = 8 square units.
 (b) Since there are 16 square in the given figure.
 Area = 16 square units.
 (c) Since there are 15 square in the given figure.
 Area = 15 square units.
 2. (a) Area = 7 cm square.
 (b) Area = 9 cm square.
 (c) Area = 7 cm square.
 (d) Area = 9 cm square.

Exercise 12.4

1. (a) Area of rectangle = $L \times b$

= $6 \text{ cm} \times 4 \text{ cm}$
 = 24 sq cm

- (b) Area of rectangle = $L \times b$
 = $8 \text{ cm} \times 6 \text{ cm}$
 = 48 cm
 (c) Area of rectangle = $L \times b$
 = $12 \text{ cm} \times 8 \text{ cm}$
 = cm
 (d) Area of rectangle = side \times side
 = $8 \text{ cm} \times 8 \text{ cm}$
 = 64 cm
 (e) Area of rectangle = side \times side
 = $10 \text{ cm} \times 10 \text{ cm}$
 = 100 cm
 (f) Area of rectangle = side \times side
 = $12 \text{ cm} \times 12 \text{ cm}$
 = 144 cm

2. (a) Area of rectangle = $l \times b$
 = $25 \text{ cm} \times 10 \text{ cm}$
 = 250 cm
 (b) Area of rectangle = $l \times b$
 = $40 \text{ cm} \times 30 \text{ cm}$
 = 1,200 cm
 (c) Area of rectangle = $l \times b$
 = $16 \text{ cm} \times 12 \text{ cm}$
 = 192 cm
 3. (a) Area of square = side \times side
 = 18×18
 = 324 cm
 (b) Area of square = side \times side
 = 10×10
 = 100 cm
 (c) Area of square = side \times side
 = 30×30
 = 900 cm

4.	Area	Length	Breadth
(a)	54 cm^2	$L = 6 \text{ cm}$	9 cm
(b)	216 cm^2	36 cm	$b = 6 \text{ cm}$
(c)	380 cm^2	19 cm	$b = 20 \text{ cm}$
(d)	800 cm^2	$L = 20 \text{ cm}$	40 cm

13. Time

Exercise 13.1

1. Do yourself.
 2. 5
 3. 60
 4. (a) 8 : 20
 (b) 11 : 50
 5. (a) 5 : 00
 (b) 12 : 00

Exercise 13.2

1. (a) A.M. (b) A.M. (c) P.M. (d) P.M.
 (e) A.M. (f) P.M.

2. (a) A.M. (b) A.M. (c) P.M. (d) P.M.
 (e) P.M. (f) P.M.
3. (a) 10 : 10 P.M. (b) 12 : 30 A.M.
 (c) 2 : 10 P.M. (d) 11 : 50 A.M.

Exercise 13.3

1. (a) 7 days
 1 day = 24 hours
 7 days = $24 \times 7 = 168$ hours
- (b) 9 days
 1 day = 24 hours
 9 days = $24 \times 9 = 216$ hours
- (c) 12 days
 1 day = 24 hours
 12 days = $24 \times 12 = 288$ hours
- (d) 15 days
 1 day = 24 hours
 15 days = $24 \times 15 = 360$ hours
2. (a) 6 hours
 1 hours = 60 minutes
 6 hours = $60 \times 6 = 360$ minutes
- (b) 12 hours
 1 hours = 60 minutes
 12 hours = $60 \times 12 = 720$ minutes
- (c) 8 hours 5 minutes
 1 hours = 60 minutes
 8 hours = $60 \times 8 + 5$ minutes
 $= 480 + 5$
 $= 485$ minutes
- (d) 10 hours 10 minutes
 10 hours = 600 minutes
 10 hours = $60 \times 10 + 10$ minutes
 $= 600 + 10$
 $= 610$ minutes
3. (a) 8 minutes
 1 minute = 60 seconds
 8 minutes = $60 \times 8 = 480$ seconds
- (b) 30 minutes
 1 minute = 60 seconds
 30 minutes = $60 \times 30 = 1800$ seconds
- (c) 45 minutes 40 seconds
 1 minute = 60 seconds
 45 minutes = $60 \times 45 + 40$
 $= 2700 + 40$
 $= 2740$ seconds
- (d) 40 minutes 45 seconds
 1 minute = 60 seconds
 40 minutes = $60 \times 40 + 45$
 $= 2400 + 45$
 $= 2445$ seconds

Exercise 13.4

1. (a)
$$\begin{array}{r} 9 \quad 10 \\ + 8 \quad 20 \\ \hline 17 \quad 30 \end{array}$$

 Ans: 17 hours 30 minutes
- (b)
$$\begin{array}{r} 9 \quad 40 \\ + 11 \quad 50 \\ \hline 20 \quad 90 \end{array}$$

 Ans: 20 hours 90 minutes
- (c)
$$\begin{array}{r} 12 \quad 45 \\ + 15 \quad 55 \\ \hline 28 \quad 00 \end{array}$$

 Ans: 28 minutes 70 seconds
- (d)
$$\begin{array}{r} 40 \quad 30 \\ + 30 \quad 40 \\ \hline 70 \quad 70 \end{array}$$
2. (a)
$$\begin{array}{r} 21 \quad 40 \\ - 16 \quad 20 \\ \hline 05 \quad 20 \end{array}$$

 Ans: 05 hours 20 minutes
- (b)
$$\begin{array}{r} 18 \quad 10 \\ - 7 \quad 15 \\ \hline 10 \quad 95 \end{array}$$

 Ans: 50 minutes 25 seconds from 55 minutes 45 seconds.
- (c)
$$\begin{array}{r} 55 \quad 45 \\ - 50 \quad 25 \\ \hline 05 \quad 15 \end{array}$$

 ? Ans: 05 minutes 15 seconds
- (d)
$$\begin{array}{r} 50 \quad 25 \\ - 30 \quad 35 \\ \hline 19 \quad 90 \end{array}$$

 Ans: 19 minutes 90 seconds

Exercise 13.5

Do yourself.

Exercise 13.6

1. (a)
$$\begin{array}{r} 11 : 45 \\ - 7 : 00 \\ \hline 04 : 45 \end{array}$$

 Ans: 04 hours 45 minutes
- (b)
$$\begin{array}{r} 10 : 30 \\ - 7 : 30 \\ \hline 3 : 00 \end{array}$$

 Ans: 3 hours 00 minutes
- (c)
$$\begin{array}{r} 12 : 00 \\ - 11 : 30 \\ \hline 11 : 30 \end{array}$$

 Ans: 11 hours 30 minutes
- (d)
$$\begin{array}{r} 10 : 45 \\ - 9 : 30 \\ \hline 1 : 15 \end{array}$$

 Ans: 1 hours 15 minutes
2. (a) Convert 6 p.m. to 24 hours clock time.
 $6 + 12 = 18$ hours
 9 : 00 a.m. = 9 hours
 subtract = 9 from hours.
 $18 - 9 = 9$ hours
 time spend in office = 9 hours
- (b) Time duration = finishing time – starting time
 $= 06 : 00 - 03 : 00$
 $= 3$ hours
 The duration of the mason's work = 3 hours
- (c) I catch a train at = 7 : 45 A.M.
 The train takes to reach my office = 2 : 15 minutes
 $7 : 45 \text{ A.M.} + 2 : 15 \text{ minutes}$
 $7 : 45 + 215 = 9 : 60$
 time will be ing my office = 9 hours 60 minutes.

- (d) Time duration = finishing time – starting time.
 = 22 : 30 hours – 7 : 30 P.M.
 = 22 : 30 – 12 hours
 = 10 : 30

Raju study till = 10 : 30 P.M.

Exercise 13.7

1. (a) 365 (b) 366 (c) 29 (d) four
 (e) April, June, September, November
 (f) 28
2. (a) 91 days (b) 86 days (c) 92 days (d) 49 days

14. Data Handling

Exercise 14.1

1. **Maths Tests**

Days	Mon	Tues	Wed	Thu	Fri
Marks	8	17	8	4	20

English Tests

Days	Mon	Tues	Wed	Thu	Fri
Marks	14	6	15	14	9

2. (a)
- | Students | Anu | Renu | John | Seema |
|----------|-----|------|------|-------|
| Tickets | 3 | 5 | 4 | 6 |

- (b)
- | Games | Swimming | Badminton | Football | Cricket |
|-----------------|----------|-----------|----------|---------|
| No. of students | 40 | 50 | 50 | 60 |

3. Do yourself.

Exercise 14.2

1. (a)
- | Name | Amount of Money Collected |
|---------|---------------------------|
| Manvi | ₹ 270 |
| Kiran | ₹ 140 |
| Andy | ₹ 260 |
| Sanjana | ₹ 200 |
| Rahul | ₹ 130 |
| Jai | ₹ 140 |

- (b) Manvi and Andy (c) Kiran and Jai
 (d) Andy (e) ₹ 1140
 (f) ₹ 860

2. (a) tea (b) 20 (c) 230
 (d) coffee and juice
3. (a) 1 hours (b) 2 hours (c) 6 hours (d) sleeping
 (e) Travelling

15. Patterns

Warm up

- A. 1, 3, 4
 B. Do yourself.
 C. Do yourself.

Exercise 15.1

1. 1, 3, 6
 2. Do yourself.

Exercise 15.2

- A. 1, 3, 4, 6
 B. Do yourself.
 C. Do yourself.

Exercise 15.3

- A. 1. W E L L D O N E
 2. G O G R E E N
- B. 1. 7 15 15 4, 13 15 18 14 91 47
 2. 18 5 3 25 3 12 5
 3. 15 21 20 19 20 1 14 4 9 14 7
- C. 22, 21, 20
- D. 1. 25, 22, 8; 7, 4; 18, 8, 19, 22, 8
 2. 11, 15, 26, 13, 7, 26, 7, 9, 22, 22
 3. 8, 26, 5, 22, 11, 26, 11, 22 9
- E. A B C D E F G = 1, 2, 3, 4, 5, 6, 7
 B C D E F G H = 2, 3, 4, 5, 6, 7, 8
- F. 1. GOOD CHILD
 2. EXCELLENT