

Answers : Ensures Distinction in Maths

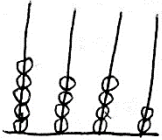
Grade 4

Maths G4.

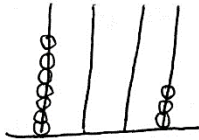
Pg 1 Ex 1.1

- 1) (a) 3142 (b) 4250 (c) 1441 (d) 2031

2 (a)



(b)



Ex 1.2

- 1 (a) 11 (b) 13 (c) 79 (d) 33 (e) 46  
(f) 112 (g) 225 (h) 340 (i) 658 (j) 102

- 2) (a) 16 (b) 64 (c) 1864 (d) 2120  
(e) 4600 (f) 5008

- 3) (a) sixteen. (b) nineteen.  
(c) sixty four (d) ninety seven.  
(e) one hundred and sixteen.  
(f) seven hundred and fifty four.  
(g) eight hundred and sixty  
(h) nine hundred and ninety three.

- 4) (a) Three thousand two hundred and forty five.  
(b) seven thousand eight hundred and sixty nine  
(c) Five thousand six hundred and forty.  
(d) Seven thousand six hundred and twenty three  
(e) Four thousand and eight.  
(f) Seven thousand and eighty.  
(g) six thousand seven hundred and fifty four.  
(h) Eight thousand eight hundred and eighty eight

Ex 1.3

- (a) 8000 (b) 700 (c) 500  
(d) 80 (e) 3

Ex 1.4

- 1 (a) (i) 3221  
(ii) Three thousand two hundred and twenty one  
b (i) 2532  
(ii) Two thousand five hundred and thirty two

(c) (i) 1245

(ii) One thousand two hundred and forty five.

d (i) 1032

(ii) one thousand and thirty two.

Ex 1.5

- 1 (a) 9327 (b) 7451 (c) 3514 (d) 4396  
(e) 2653 (f) 2653 (g) 5628

Ex 1.6

- (a)  $8567 = (8 \times 1000) + (5 \times 100) + (6 \times 10) + (7 \times 1)$   
(b)  $5941 = (5 \times 1000) + (9 \times 100) + (4 \times 10) + (1 \times 1)$   
(c)  $5760 = (5 \times 1000) + (7 \times 100) + (6 \times 10)$   
(d)  $4072 = (4 \times 1000) + (7 \times 10) + (2 \times 1)$   
(e)  $3509 = (3 \times 1000) + (5 \times 100) + (9 \times 1)$

Ex 1.7

- 1 (a). 4 thousands (b) 3 hundreds.  
(c) 7 tens (d) 2 units.  
(e) 6 hundreds.

Ex 1.8

- 1 (a)  $7568 = 7 \text{ thousand} + 5 \text{ hundreds} + 6 \text{ tens} + 8 \text{ unit}$   
(b)  $1843 = 1 \text{ thousand} + 8 \text{ hundreds} + 4 \text{ tens} + 3 \text{ unit}$   
(c)  $3450 = 3 \text{ thousands} + 4 \text{ hundreds} + 5 \text{ tens}$   
(d)  $6073 = 6 \text{ thousands} + 7 \text{ tens} + 3 \text{ units}$   
(e)  $4709 = 4 \text{ thousands} + 7 \text{ hundreds} + 9 \text{ units}$

Ex 1.9

- (a) 4635 (b) 2317 (c) 3564.  
(d) 4672 (e) 2983 (f) 5302

Ex 1.10

- (a) 3, 5, 6, 10, 11, 15.  
(b) 20, 30, 40, 50, 70.  
(c) 123, 213, 321, 432.  
(d) 3214, 3412, 4213, 4312  
(e) 6517, 6715, 7156, 7561.

Pg 7 Ex 1.11

- (a) 65, 35, 25, 15, 5
- (b) 700, 400, 300, 200, 100
- (c) 736, 637, 367
- (d) 251, 215, 152, 125
- (e) 5431, 5413, 3451, 3415

Pg 8 Ex 2.1

- 1 (a) 19 (b) 725 (c) 840 (d) 13547 (e) 2340
- 2 (a) 11112 (b) 7726 (c) 6647 (d) 13883
- 3 (a) 2018 (b) 9342 (c) 7180
- 4)  $(15+18) = 33$
- 5)  $(1568 + 3067) = 4635$
- (b)  $(29 + 34 + 41) = 104$  goals.

Pg 10 Ex 3.1

- (a) 223 (b) 10266 (c) 3613

Ex 3.2

- 1 (a) 206 (b) 527 (c) 1015
- (d) 376 (e) 2074 (f) 615

Ex 3.3

- 1 (a) 188 (b) 188 (c) 465
- (d) 2069 (e) 1737 (f) 808

Ex 3.4

- (a) 657 (b) 393 (c) 265
- (d) 4074 (e) 675 (f) 1777

Ex 3.5

- (a) 764 (b) 375 (c) 69
- (d) 4077 (e) 3541 (f) 5658

Ex 3.6

- 1)  $(18-12) = 6$
- 2)  $(4350-2483) = 1867$
- 3)  $(356-280) = 76$
- 4)  $(53-18) = 35$
- 5)  $(4532-3267) = 1265$
- 6)  $(7642-4860) = 2782$

Pg 13 Ex 4.1

- 1 (i) (a) 28 (b) 52 (c) 70 (d) 180 (e) 902
- (f) 1556

- 2 (ii) (a) 45 (b) 72 (c) ~~288~~ 90
- (d) 288 (e) 1704 (f) 1221

- 3 (ii) (a) 64 (b) 128 (c) 180
- (d) 240 (e) 1076 (f) 1880

- 4 (ii) (a) 76 (b) 135 (c) 180
- (d) 400 (e) 1545 (f) 3475

- 5 (ii) (a) 78 (b) 144 (c) 342
- (d) 360 (e) 4248 (f) 5274

- 6 (ii) (a) 112 (b) 224 (c) 315
- (d) 560 (e) 763 (f) 3669

- 7 (ii) (a) 104 (b) 192 (c) 288
- (d) 560 (e) 4032 (f) 4776

- 8 (ii) (a) 126 (b) 333 (c) 504
- (d) 270 (e) 7812 (f) 8154

Ex 4.2

- 1 (a) 150 (b) 360 (c) 700 (d) 3640
- 2 (a) 7500 (b) 8700 (c) 9000 (d) 16700
- 3 (a) 2000 (b) 46000 (c) 785000 (d) 600000

Ex 4.3

- 4 (a) 680 (b) 2300 (c) 9200 (d) 46800

Ex 4.4

- (a) 364 (b) 864 (c) 1950
- (d) 1008 (e) 585 (f) 2726

Ex 4.5

- 1)  $(14 \times 9) = 126$
- 2) Tom =  $(766 \times 2) = 1532$
- 3) Rahul =  $(18 \times 3) = 54$
- 4) Mr Bean =  $(20 \times 12) = 240$
- 5) Pages =  $(52 \times 46) = 2392$
- 6) Passengers =  $(58 \times 16) = 928$
- 7 (a) Andy =  $(3 \times 19) = 57$   
Thomas =  $(57 \times 2) = 114$
- 8 (a) John =  $(34 \times 2) = 68$   
Ravi =  $(68 + 3) = 71$

Ex 5.1

- 1 (a) 24 (b) 36 (c) 28  
 (d) 23 (e) 18 (f) 26
- 2 (a) 12 (b) 15 (c) 18  
 (d) 7 (e) 14 (f) 26
- 3 (a) 13 (b) 15 (c) 26  
 (d) 12 (e) 24 (f) 36
- 4 (a) 12 (b) 17 (c) 517  
 (d) 15 (e) 27 (f) 346
- 5 (a) 43 (b) 29 (c) 15  
 (d) 14 (e) 18 (f) 13  
 (g) 15 (h) 23 (i) 56

Py 22 Ex 5.2

- (a) 14 R1 (b) 28 R1 (c) 30 R1  
 (d) 21 R1 (e) 19 R2 (f) 25 R2
- 2 (a) 14 R2 (b) 16 R3 (c) 20 R3  
 (d) 10 R3 (e) 12 R1 (f) 9 R4
- 3 (a) 4 R3 (b) 5 R5 (c) 12 R5  
 (d) 6 R4 (e) 8 R6 (f) 43 R1
- 4 (a) 8 R2 (b) 25 R5 (c) 43 R6
- 5 (a) 5 R3 (b) 16 R7 (c) 24 R8
- 6 (a) 63 R2 (b) 121 R4 (c) 452 R6

Ex 5.3

- 1 (a) 200 (b) 300 (c) 103  
 2 (a) 301 (b) 2003 (c) 1402  
 3 (a) 106 R3 (b) 1201 R2 (c) 1001 R1

Ex 5.4

- (a) 104 (b) 104 (c) 103  
 (d) 106 (e) 104 R2 (f) 204 R3

Ex 5.5

- (a) 7 (b) 58 (c) 90  
 (d) 400 (e) 50 (f) 65  
 (g) 70 (h) 78 (i) 90

Ex 5.6

- 1)  $\frac{350}{5} = 70$   
 2)  $\frac{40}{4} = 10$   
 3)  $\frac{12}{3} = 4$   
 4)  $\frac{72}{6} = 12$   
 5)  $\frac{144}{9} = 16$   
 6)  $\frac{71}{4} = 17\frac{3}{4} = 17$   
 (a)  $\frac{71}{4}$   
 (b)  $(7 \times 4) = 68$   
 $(71 - 68) = 3$
- 7 (a)  $\frac{54}{6} = 9\frac{5}{6} = 9$   
 (b)  $(9 \times 6) = 54$   
 $(59 - 54) = 5$
- 8)  $(69 - 7) = 62$   
 $\begin{array}{r} 2 \overline{) 62} \\ \underline{31} \phantom{0} \\ 31 \phantom{0} \end{array}$   $\therefore \text{Red} = (31 + 7) = 38 \leftarrow$
- 9)  $(73 - 13) = 60$   
 $\begin{array}{r} 2 \overline{) 60} \\ \underline{30} \phantom{0} \\ 30 \phantom{0} \end{array}$   $= \text{Maanvi} = 30 \leftarrow$

Py 28 Ex 6.1

- (a) 0  $\square$  0 (c) 0 0  $\square$   
 (b)  $\square$   $\Delta$   $\square$  (d) 0  $\Delta$   $\Delta$

Ex 6.2

- 1 (a) 13, 15 (b) 16, 19  
 (c) 43, 48 (d) 40, 50 (e) 47, 57
- 2 (a) 800, 900 (b) 525, 625 (c) 455, 466  
 (d) 200, 225 (e) 6300, 7300 (f) 650, 700

Pg 29 Ex 6.3

- 1 (a) 8, 5 (b) 35, 30 (c) 100, 90  
(d) 48, 44 (e) 666, 500.

- 2 (a) 450, 400 (b) 625, 600 (c) 66, 55  
(d) 7400, 7200 (e) 76, 68.

Ex 6.4

- 1 (a)  $16 \times 2$ , 32 (b)  $168 \times 3$ , 324 (c)  $10000 \times 10$ , 100000 (d)  $250 \times 5$ , 1250  
2 (a)  $64 \times 2$ , 128 (b)  $625 \times 5$ , 3125  
(c) 81, 243 (d) 5000, 50000.

Ex 6.5

- 1 (a) 3, 1 (b)  $20 \div 2$ , 10 (c)  $1000 \div 2$ , 500  
(d) 10, 2 (e) 72, 36

Ex 6.6

- 1 (a)  $1300 + 300$ , 1600 (b)  $98 - 2$ , 96 (c)  $56 \times 2$ , 112  
(d) 9, 3 (e) 190, 215.  
2 (a)  $41 + 8$ , 49 (b)  $16 \div 2$ , 8.  
(c) 9, 6 (d) 64, 68.

Pg 31 Ex 3.1

- 1) (a) odd (b) even (c) even.  
(d) odd (e) odd (f) even.  
(g) even (h) odd (i) even.  
(j) odd (k) odd (l) even.  
2) Even : 300, 698, 462, 336, 3468  
odd : 123, 455, 441, 667, 4589.  
3) (a) 4 (b) 23 (c) 60  
(d)  $(87 - 23) = 64$ .

Pg 32 Ex 8.1

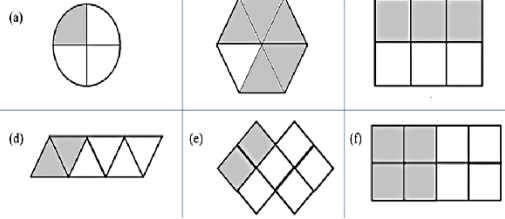
- 1 (a)  $\frac{4}{6}$  (b)  $\frac{5}{6}$  (c)  $\frac{2}{4}$  or  $\frac{1}{2}$ .  
(d)  $\frac{1}{2}$  (e)  $\frac{3}{5}$  (f)  $\frac{4}{6}$  or  $\frac{2}{3}$   
(g)  $\frac{1}{4}$  (h)  $\frac{2}{6}$  or  $\frac{1}{3}$  (i)  $\frac{4}{9}$

Pg 33 Ex 8.2

- 1 (a)  $\frac{1}{4}$  (b)  $\frac{2}{7}$  (c)  $\frac{4}{9}$ .

Ex 8.3

1 (a)



Ex 8.4

- 1 (a)  $\frac{2}{5}$  (b)  $\frac{5}{7}$ ,  $\frac{6}{7}$  (c)  $\frac{2}{6}$ ,  $\frac{5}{6}$ .  
(d)  $\frac{7}{9}$  (e)  $\frac{7}{8}$ .

Pg 35 N 3.2

- (a)  $\frac{1}{4}$  (b)  $\frac{1}{6}$  (c)  $\frac{1}{10}$  (d)  $\frac{3}{4}$ .  
(e)  $\frac{4}{7}$  (f)  $\frac{7}{8}$  (g)  $\frac{1}{2}$  (h)  $\frac{5}{6}$ .  
3) (a) one half. (b) one third.  
(c) one fifth. (d) four ninths.  
(e) three quarters. (f) three tenths.  
(g) three sevenths. (h) one sixth.

Ex 8.5

- 1 (a) 6 (b) 3 (c)  $(2 \times 5) = 10$ .  
(d)  $(5 \times 3) = 15$  (e)  $(11 \times 3) = 33$  (f)  $(15 \times 4) = 60$ .  
(g)  $(5 \times 3) = 15$  (h)  $(2 \times 6) = 12$  (i)  $(9 \times 7) = 63$

Pg 36 Ex 8.6

- 1 (a)  $1\frac{2}{9}$ ,  $3\frac{2}{5}$   
(b)  $\frac{6}{5}$ ,  $\frac{7}{3}$ ,  $\frac{11}{10}$

Ex 8.7

- (a)  $\frac{7}{4}$  (b)  $\frac{17}{7}$  (c)  $\frac{14}{9}$ .  
(d)  $\frac{15}{4}$  (e)  $\frac{11}{5}$  (f)  $\frac{47}{9}$ .

Ex 8.8

- (a)  $1\frac{2}{3}$  (b)  $4\frac{1}{2}$  (c)  $3\frac{1}{3}$   
(d)  $4\frac{2}{3}$  (e)  $4\frac{3}{4}$  (f)  $4\frac{2}{2}$

Ex 8.9

1 (a)  $\frac{2}{9}, \frac{3}{9}, \frac{5}{9}, \frac{7}{9}$ .

(b)  $\frac{1}{10}, \frac{3}{10}, \frac{7}{10}, \frac{9}{10}$ .

2 (a)  $\frac{10}{11}, \frac{6}{11}, \frac{3}{11}, \frac{1}{11}$

(b)  $\frac{7}{8}, \frac{5}{8}, \frac{4}{8}, \frac{2}{8}$ .

Ex 8.10

1 (a)  $\frac{7}{10}, \frac{3 \times 2}{5 \times 2} = \frac{6}{10}, \frac{4 \times 2}{5 \times 2} = \frac{8}{10}$ .

Ascending =  $\frac{6}{10}, \frac{7}{10}, \frac{8}{10}$   
=  $\frac{3}{5}, \frac{7}{10}, \frac{4}{5}$  ←

(b)  $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}, \frac{5}{8}, \frac{3 \times 2}{4 \times 2} = \frac{6}{8}$ .

Ascending =  $\frac{4}{8}, \frac{5}{8}, \frac{6}{8}$   
=  $\frac{1}{2}, \frac{5}{8}, \frac{3}{4}$  ←

2 (a)  $\frac{5}{12}, \frac{3 \times 3}{4 \times 3} = \frac{9}{12}, \frac{7}{12}$ .

Descending =  $\frac{9}{12}, \frac{7}{12}, \frac{5}{12}$   
=  $\frac{3}{4}, \frac{7}{12}, \frac{5}{12}$  ←

(b)  $\frac{1 \times 6}{3 \times 6} = \frac{6}{18}, \frac{2 \times 2}{4 \times 2} = \frac{4}{18}, \frac{5}{18}$ .

Descending =  $\frac{6}{18}, \frac{5}{18}, \frac{4}{18}$   
=  $\frac{1}{3}, \frac{5}{18}, \frac{2}{9}$  ←

Pg 40 Ex 8.11

1 (a)  $\frac{1}{8}$  (b)  $\frac{11}{13}$  (c)  $\frac{8}{7}$

(d)  $\frac{6}{9}$  (e)  $\frac{6}{7}$  (f)  $\frac{3}{15}$ .

Ex 8.12

1 (a)  $\frac{1 \times 2}{2 \times 2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$ .

(b)  $\frac{4 \times 2}{5 \times 2} - \frac{3}{10} = \frac{8}{10} - \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$ .

(c)  $\frac{1}{6} + \frac{2 \times 2}{3 \times 2} = \frac{1}{6} + \frac{4}{6} = \frac{5}{6}$ .

(d)  $\frac{11}{12} - \frac{3 \times 3}{4 \times 3} = \frac{11}{12} - \frac{9}{12} = \frac{2}{12}$

(e)  $\frac{7}{8} - \frac{3 \times 2}{4 \times 2} = \frac{7}{8} - \frac{6}{8} = \frac{1}{8}$ .

(f)  $\frac{1 \times 3}{5 \times 3} + \frac{4}{15} = \frac{3}{15} + \frac{4}{15} = \frac{7}{15}$ .

(g)  $\frac{3}{8} + \frac{1 \times 4}{2 \times 4} = \frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ .

(h)  $\frac{7}{9} - \frac{1 \times 3}{3 \times 3} = \frac{7}{9} - \frac{3}{9} = \frac{4}{9}$

(i)  $\frac{1 \times 3}{2 \times 3} - \frac{1}{6} = \frac{3}{6} - \frac{1}{6} = \frac{2}{6}$ .

(j)  $\frac{1 \times 4}{3 \times 4} + \frac{7}{12} = \frac{4}{12} + \frac{7}{12} = \frac{11}{12}$

Ex 8.13

1 (a)  $\frac{3}{6}$  (b)  $\frac{6}{8}$ .

2 (a)  $\frac{3}{7}$  (b)  $\frac{5}{6} - \frac{1 \times 3}{2 \times 3} = \frac{5}{6} - \frac{3}{6} = \frac{2}{6}$

3 (a)  $\frac{4}{5}$  (b)  $\frac{3}{10} + \frac{2 \times 2}{5 \times 2} = \frac{3}{10} + \frac{4}{10} = \frac{7}{10}$

4) Common denominator = 12

$\frac{1 \times 4}{3 \times 4} = \frac{4}{12}, \frac{5 \times 2}{6 \times 2} = \frac{10}{12}, \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$

Ascending =  $\frac{4}{12}, \frac{9}{12}, \frac{10}{12}$   
=  $\frac{1}{3}, \frac{3}{4}, \frac{5}{6}$  ←

5) Common denominator = 10.

$\frac{3}{10}, \frac{4 \times 2}{5 \times 2} = \frac{8}{10}, \frac{7}{10}$ .

Descending =  $\frac{8}{10}, \frac{7}{10}, \frac{3}{10}$   
=  $\frac{4}{5}, \frac{7}{10}, \frac{3}{10}$  ←

6) (a)  $4\frac{1}{2}$  (b)  $\frac{4}{3}$  (c)  $\frac{4}{8}$

Ex 9.1

- 1 (b) parallel (c) parallel (d) not parallel.  
 (e) not parallel (f) parallel.

Ex 9.2

- (a) horizontal (b) inclined (c) vertical.  
 (d) inclined (e) vertical (f) horizontal.

Ex 9.3

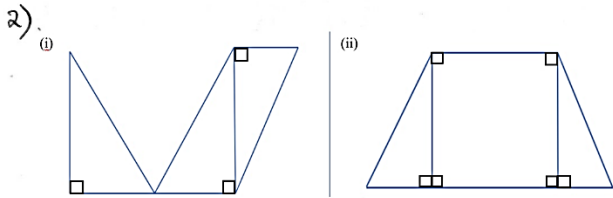
- 1 (a) vertical (b) horizontal (c) inclined.  
 2 (a) horizontal (b) inclined (c) parallel.  
 3 (a) a horizontal (b) an inclined.  
 (c) a vertical (d) parallel.  
 (e) not parallel (f) DE.

Pg 46 Ex 10.1

- (i) a, b (ii) P, q (iii) s, r (iv) v, u

Ex 10.2

- 1) (a) yes (b) no (c) yes.  
 (d) yes (e) yes (f) no.



Pg 48 Ex 11.1

- 1 (a) straight (b) vertex (c) 3.  
 (d) 3 (e) 3 (f) closed.

Ex 11.2

- 1) 4. 2) equal 3. equal 4) 4.  
 5) 2 6) vertex 7) 4 8) a closed.

Ex 11.3

- 1) 4 2) equal 3) 4 5) 2.  
 6) 4 7) a closed.

Ex 11.4

- (a) a closed (b) 0 (c) curved.

Ex 11.5

- (a) triangle (b) curved (c) vertex  
 (d) rectangle (e) straight (f) 4 (g) no

Pg 51 Ex 12.1

- 1) Tick (ii), (iii), (v), (vii)  
 2) (a) cone (b) cuboid (c) cylinder.  
 (d) cube (e) sphere.

Ex 12.2

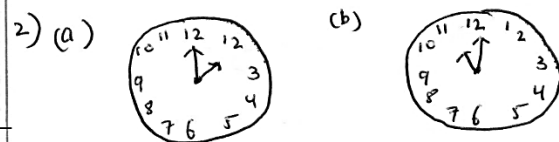
- 1 (a) 8 (b) 12 (c) 6.  
 (d) equal (e) square.  
 2) (a) 8 (b) 12 (c) 6.  
 (d) not equal (e) rectangle.

Ex 12.3

- 1) (a) cube, (b) cone (c) cylinder.  
 (d) sphere, (e) cuboid.  
 2) (a) A = edge B = vertex C = face.  
 (b) D = face E = edge F = vertex  
 (c) G = flat face H = curved surface.  
 (d) I = vertex J = curved surface K = flat face.  
 3) (a) 6, 12, 8, No  
 (b) cuboid, 6, 12, 8.  
 (c) , 2, 0, Yes.  
 (d) , 1, 1, Yes.  
 (e) sphere, 0, yes.

Pg 56 Ex 13.1

- 1) (a) 4:00, four o'clock.  
 (b) 6:00, six o'clock.  
 (c) 7:00, seven o'clock.  
 (d) 10:00, ten o'clock.



Ex 13.2

- 1 (a) 11:30, half past eleven.  
 (b) 1:15, quarter past one.  
 (c) 3:30, half past three.  
 (d) 9:15, quarter past nine.  
 (e) 8:30, half past eight.  
 (f) 5:15, quarter past five.

7958 2

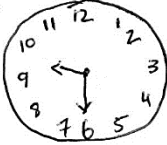
(a)



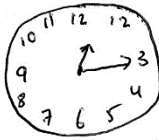
(b)



(c)



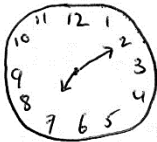
(d)



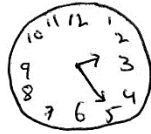
Ex 13.3

- 1) (a) 9:10, ten minutes past nine.  
 (b) 4:25, twenty five <sup>minutes</sup> past four.  
 (c) 8:20, twenty minutes past eight.  
 (d) 10:05, five minutes past ten.

2 (a)



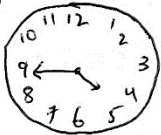
(b)



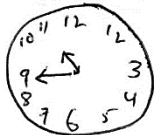
Ex 13.4

- 1 (a) 11:45, quarter to twelve.  
 (b) 3:45, quarter to four.  
 (c) 5:45, quarter to six.  
 (d) 7:45, quarter to eight.

2 (a)



(b)



Ex 13.5

- 1 (a) 3:35, twenty five minutes to four.  
 (b) 7:55, five minutes to eight.  
 (c) 4:40, twenty minutes to five.  
 (d) 2:55, fifty five minutes to three.

2 (a)



(b)



7962 Ex 14.1

- (a) 11 m      (b) 63 m      (c) 187 m.  
 (d) 5 m      (e) 4 m      (f) 144 m.  
 (g) 15 m      (h) 78 m      (i) 192 m.  
 (j) 8 m      (k) 6 m      (l) 7 m.

Ex 14.2

- (a) 400 cm      (b) 1200 cm      (c) 10000 cm.  
 (d) 1700 cm      (e) 4500 cm      (f) 50 cm.

Ex 14.3

- 1 (a)  $400 + 76 = 476$  cm      (b)  $(1000 + 78) = 1078$  cm  
 (c)  $(900 + 7) = 907$  cm      (d)  $(1700 + 4) = 1704$  cm

Ex 14.4

- (a)  $\frac{800}{100} = 8$  m      (b)  $\frac{300}{100} = 3$  m.  
 (c)  $\frac{50}{100} = \frac{1}{2}$  m      (d)  $\frac{40}{100} = \frac{2}{5}$  m.  
 (e)  $\frac{10}{100} = \frac{1}{10}$  m      (f)  $\frac{75}{100} = \frac{3}{4}$  or 0.75  
 (g)  $\frac{6000}{100} = 60$  m      (h)  $\frac{4000}{100} = 40$  m.  
 (i)  $\frac{800}{100} + \frac{10}{100} = 8\frac{1}{10}$       (j)  $\frac{300}{100} + \frac{25}{100} = 3\frac{1}{4}$ .  
 (k)  $\frac{700}{100} + \frac{75}{100} = 7\frac{3}{4}$  or 7.75      (l)  $\frac{500}{100} + \frac{40}{100} = 5\frac{2}{5}$  or 5.4.

7965 Ex 14.5

- 1 (a) 5 m 55 cm      (b) 6 m 20 cm.  
 (c) 9 m 88 cm      (d) 8 m 65 cm.  
 (e) 4 m 40 cm      (f) 6 m 20 cm.  
 (g) 7 m 60 cm      (h) 13 m 25 cm.

Ex 14.6

- 1 (a) 2 m 50 cm      (b) 1 m 16 cm.  
 (c) 1 m 70 cm      (d) 1 m 90 cm.  
 (e) 2 m 70 cm      (f) 65 cm.

Ex 14.7

- 1 (a) 5 m 60 cm      (b) 3 m 13 cm.  
 (c) 5 m 24 cm      (d) 2 m 65 cm.  
 (e) 4 m 80 cm      (f) 7 m 55 cm.

Ex 14.8

- 1 (a) 1 m 60 cm      (b) 2 m 23 cm.  
 (c) 1 m 54 cm      (d) 6 m 75 cm.  
 (e) 9 m 35 cm      (f) 2 m 95 cm.

Ex 14.9

- 1 (a) 24 m      (b) 3 m 50 cm      (c) 45 cm  
 (d) 4 m 40 cm      (e) 6 m 30 cm      (f) 18 m 75 cm

7

pg 70 Ex 14.10

- (a) 4m 70cm (b) 15m 60cm  
 (c) 28m 32cm (d) 17m 40cm  
 (e) 54m 60cm (f) 18m 6cm

Ex 14.11

- (a) 23m (b) 48cm (c) 47cm  
 (d) 100m (e) 39m (f) 212cm

Ex 14.12

- (a)  $\frac{272}{2} = 136 \text{ cm}$   
 $= 1 \text{ m } 36 \text{ cm}$   
 (b)  $\frac{548}{2} = 274$   
 $= 2 \text{ m } 74 \text{ cm}$   
 (c)  $\frac{270}{6} = 45$   
 $= 0 \text{ m } 45 \text{ cm}$   
 (d)  $\frac{858}{6} = 143$   
 $= 1 \text{ m } 43 \text{ cm}$   
 (e)  $\frac{204}{2} = 102$   
 $= 1 \text{ m } 2 \text{ cm}$   
 (f)  $\frac{604}{3} = 201$   
 $= 2 \text{ m } 3 \text{ cm}$   
 (g)  $\frac{1005}{5} = 201$   
 $= 2 \text{ m } 1 \text{ cm}$   
 (h)  $\frac{1208}{8} = 151$   
 $= 1 \text{ m } 51 \text{ cm}$

Ex 14.13

- 1)  $(165 + 43) = 208 = 2 \text{ m } 8 \text{ cm}$   
 2)  $(45 - 12) = 33 \text{ cm}$   
 3)  $(45 \times 3) = 135 \text{ cm} = 1 \text{ m } 35 \text{ cm}$   
 4)  $(734 - 145) = 589 \text{ cm} = 5 \text{ m } 89 \text{ cm}$   
 5)  $(276 + 137) = 413 \text{ cm} = 4 \text{ m } 13 \text{ cm}$   
 6)  $(135 \times 6) = 810 \text{ cm} = 8 \text{ m } 10 \text{ cm}$   
 7)  $(25 \times 3) = 75 \text{ cm}$   
 8)  $\frac{120}{4} = 30 \text{ cm}$   
 9)  $\frac{588}{6} = 98 \text{ cm}$

10)  $\frac{2840}{6} = 473 \frac{2}{6}$

(a)  $\therefore 474 \text{ rolls} \leftarrow$

(b)  $(473 \times 6) = 2838$

$(2840 - 2838) = 2 \text{ cm} \leftarrow$

pg 75 Ex 15.1

- (a) Bucket (b) bottle (c)  
 (d) water tank

Ex 15.2

- (a)  $(3 \times 100) = 300 \text{ cl}$  (b)  $10 \times 100 = 1000 \text{ cl}$   
 (c)  $(27 \times 100) = 2700 \text{ cl}$  (d)  $\frac{1}{2} \times 100 = 50 \text{ cl}$   
 (e)  $(\frac{1}{5} \times 100) = 20 \text{ cl}$  (f)  $\frac{1}{10} \times 100 = 10 \text{ cl}$

Ex 15.3

- (a)  $(400 + 56) = 456 \text{ cl}$  (b)  $(1000 + 38) = 1038 \text{ cl}$   
 (c)  $(900 + 87) = 987 \text{ cl}$  (d)  $(700 + 9) = 709 \text{ cl}$

Ex 15.4

- (a)  $\frac{600}{100} = 6 \text{ L}$  (b)  $\frac{400}{100} = 4 \text{ L}$   
 (c)  $\frac{50}{100} = \frac{5}{10}$  or  $\frac{1}{2} \text{ L}$  (d)  $\frac{40}{100} = \frac{4}{10}$  or  $\frac{2}{5} \text{ L}$   
 (e)  $\frac{10}{100} = \frac{1}{10} \text{ L}$  (f)  $\frac{75}{100} = \frac{3}{4} \text{ L}$   
 (g)  $\frac{700}{100} = 7 \text{ L}$   $\frac{1000}{100} = 10 \text{ L}$

(i)  $610 = \frac{600}{100} + \frac{10}{100}$   
 $= 6 \frac{1}{10} \text{ L}$

(j)  $425 = \frac{400}{100} + \frac{25}{100}$   
 $= 4 \frac{1}{4} \text{ L}$

(k)  $775 = \frac{700}{100} + \frac{75}{100}$   
 $= 7 \frac{3}{4} \text{ L}$

(l)  $540 = \frac{500}{100} + \frac{40}{100}$   
 $= 5 \frac{2}{5} \text{ L}$

Ex 15.5

- (a) 38L (b) 125 L  
 (c) 125 L (d) 64 L  
 (e) 50 cl (f) 87 cl  
 (g) 1180 cl (h) 270 cl

Ex 15.6

(a) 5L 23cl

(b)  $\begin{array}{r} 360 \\ + 80 \\ \hline 440 \end{array}$  4L 40cl

(c) 7L 78cl

(d)  $\begin{array}{r} 335 \\ + 285 \\ \hline 620 \end{array}$  6L 20cl

(e)  $\begin{array}{r} 565 \\ + 355 \\ \hline 920 \end{array}$  9L 20cl

(f)  $\begin{array}{r} 270 \\ + 350 \\ \hline 620 \end{array}$  6L 20cl

(g)  $\begin{array}{r} 490 \\ + 270 \\ \hline 760 \end{array}$  7L 60cl

(h)  $\begin{array}{r} 380 \\ + 280 \\ \hline 660 \end{array}$  6L 60cl



Pg 80 Ex 15-7

- 1 (a) 11 L (b) 38 (c) 37 cl (d) 94 cl.

Ex 15-8

- 1 (a) 2L 20cl (b) 9L 16cl.  
 (c) 1L 70cl (d) 1L 50cl.  
 (e) 2L 70cl (f) 75cl.

Ex 15-9

- 1 (a) 4L 60cl (b) 3L 13cl.  
 (c) 5L 34cl (d) 2L 55cl.  
 (e) 4L 70cl (f) 7L 83cl.

Ex 15-10

- 1 (a) 2L 60cl (b) 3L 13cl.  
 (c) 1L 54cl (d) 5L 75cl.  
 (e) 5L 57cl (f) 3L 75cl.

Ex 15-11

- 1 (a) 20L (b) 350L (c) 45cl.  
 (d) 4L 40cl (e) 5L 60cl (f) 15L 00cl

Ex 15-12

- (1) 4L 90cl (b) 1L 70 11L 70cl.  
 (c) 28L 92cl (d) 22L 72cl.  
 (e) 39L 00cl (f) 18L 6cl.

Ex 15-B

- (a) 16L (b) 16L (c) 72 cl.  
 (d) 25cl (e) 126 cl (f) 254 cl.

Ex 15-14

- (a)  $\frac{456}{2} = 228$  (b)  $2 \overline{) 548} = 274$  2L 74cl  
 (c)  $6 \overline{) 390} = 65$  (d)  $6 \overline{) 918} = 153$  1L 53cl.  
 (e)  $2 \overline{) 206} = 103$  (f)  $3 \overline{) 408} = 136$  1L 36cl.  
 (g)  $6 \overline{) 906} = 151$  (h)  $8 \overline{) 1408} = 176$  1L 76cl

Ex 15-15

$$\begin{array}{r} 1. \ 245 \\ + 365 \\ \hline 610 \\ \hline 910 \end{array}$$

9L 10cl

$$2) \frac{325}{160}$$

$$\frac{165}{165}$$

1L 65cl.

3)  $(3 \times 7) = 21$  L.

4)  $(45 \times 3) = 135$  cl

$(250 - 135) = 115$  cl = 1L 15cl ←

5)  $(260 - 80) = 180$

$$4 \overline{) 180} \rightarrow 45 \text{ cl} \leftarrow$$

$$6) \frac{240}{\times 6} = 1440$$

14L 40cl ←

7) Peter =  $(365 - 80) = 285$  cl ←

(b) together =  $(365 + 285) = 650 = 6L 50cl$ .

$$8) 5 \overline{) 605} = 121$$

1L 21cl.

9)  $(45 \times 8) = 360$

left =  $(500 - 360) = 140 = 1L 40cl$ .

10)  $(265 + 355) = 620$  cl

$(620 - 80) = 540$

$$6 \overline{) 540} = 90 \text{ cl} \leftarrow$$

Pg 89 Ex 16-1

- 1 (a) 3kg (b) 500g (c) 10kg.  
 (d) 200g (e) 8kg (f) 700g.

Ex 16-2

- 1 (a) 3000g (b) 8000g (c) 10000g  
 (d) 500000g (e) 250g (f)  $(\frac{2}{5} \times 1000) = 400g$   
 (g)  $(\frac{1}{10} \times 1000) = 100g$  (h)  $(\frac{3}{4} \times 1000) = 750g$

Ex 16-3

- (a) 3500g (b)  $(7000 + 400) = 7400g$   
 (c)  $(4000 + 200) = 4200g$  (d)  $(5000 + 750) = 5750g$ .

Pg 91 Ex 16.4

- (a) 4350g (b) 7750g  
 (c) (10000 + 70) = 10070g (d) 7000 + 4 = 7004g

Ex 16.5

- (a)  $\frac{5000}{1000} = 5 \text{ kg}$  (b)  $\frac{3000}{1000} = 3 \text{ kg}$   
 (c)  $\frac{100}{1000} = \frac{1}{10} \text{ kg}$  (d)  $\frac{500}{1000} = \frac{1}{2} \text{ kg}$   
 (e)  $\frac{750}{1000} = \frac{3}{4} \text{ kg}$  (f)  $\frac{600}{1000} = \frac{3}{5} \text{ kg}$

Ex 16.6

- (a)  $\frac{7500}{1666} = \frac{7000}{1000} + \frac{500}{1000} = 7\frac{1}{2} \text{ kg}$   
 (b)  $\frac{8000}{1000} + \frac{200}{1000} = 8\frac{1}{5} \text{ kg}$   
 (c)  $\frac{4000}{1000} + \frac{250}{1000} = 4\frac{1}{4} \text{ kg}$   
 (d)  $\frac{3000}{1000} + \frac{750}{1000} = 3\frac{3}{4} \text{ kg}$   
 (e)  $\frac{6000}{1000} + \frac{100}{1000} = 6\frac{1}{10} \text{ kg}$   
 (f)  $\frac{8000}{1000} + \frac{600}{1000} = 8\frac{3}{5} \text{ kg}$

Ex 16.7

- (a) 38 kg (b) 1080 kg (c) 200g (d) 580g

Ex 16.8

- (a) 520g (b) 1505g  $\rightarrow$  1kg 505g  
 (c) 1320g (d) 1100g = 1kg 100g  
 1kg 320g

Ex 16.9

- (a) 3kg 855g (b) 3kg 530g (c) 14kg 150g  
 (d) 8kg 580g (e) 6kg 220g (f) 5kg 430g  
 (g) 8kg 655g (h) 9kg 27g (i) 6kg 500g

Ex 16.10

- (a) 17kg (b) 150 kg  
 (c) 320g (d) 6kg 650g

Ex 16.11

- (a) 2kg 170g (b) 4kg 335g (c) 1kg 690g  
 (d) 2kg 650g (e) 2kg 705g (f) 650g

Ex 16.12

- (a) 1kg 750g (b) 1kg 950g (c) 3kg 200g  
 (d) 6kg 250g (e) 1kg 955g (f) 1kg 470g

Ex 16.13

- (a) 35kg (b) 84kg (c) 720g  
 (d) 2kg 572g (e) 3kg (f) 11kg 740g

Ex 16.14

- (a) 6kg 360g (b) 8kg 480g (c) 17kg 700g  
 (d) 11kg 760g (e) 18kg 480g (f) 5kg 50g

Ex 16.15

- (a) 34kg (b) 48kg (c) 150g  
 (d) 135g (e) 785g (f) 1625g

Ex 16.16

- (a) 1kg 360g (b) 603g (c) 3kg 308g  
 (d) 836g (e) 1kg 676g (f) 816g  
 (g) 169g (h) 1kg 151g

Word Ex 16.17

- $6(2760) = 460g$
- $(470 \times 8) = 3kg 760g$
- Remain =  $(15000 - 10200) = 4800g$   
 1 packet =  $\frac{4800}{6} = 800g \leftarrow$
- Rita =  $(47250 - 2800) = 44kg 450g \leftarrow$   
 Adam =  $(47250 + 7750) = 55kg \leftarrow$
- 12 biscuit =  $(12 \times 12) = 144g$   
 mass of box + biscuit =  $(144 + 20) = 164g \leftarrow$
- 8 books =  $(750 \times 8) = 6000g = 6kg$   
 clothes + books =  $(6 + 7) = 13$   
 more =  $(15 - 13) = 2kg \leftarrow$
- 9 forks =  $(6000 - 600) = 5400g$   
 1 fork =  $\frac{5400}{9} = 600g$

110

Ex 17.1

- 1 (a) 5  
 (b) 1  
 (c) Mitisha.  
 (d) Shanira and Rita.  
 (e)  $(5+7+6+5) = 23$ .

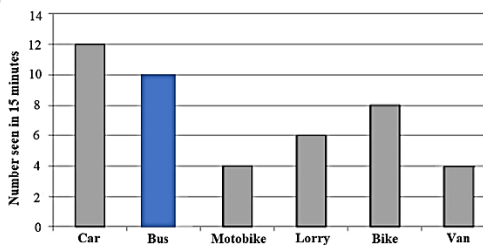
- 2) (a) 5  
 (b) Lucas.  
 (c) 3  
 (d) Sophia.  
 (e) Mia.  
 (f)  $(3+5+7+4) = 19$ .

- 3) (a)  $(8 \times 5) = 40$ .  
 (b) Wednesday.  
 (c) Tuesday.  
 (d) Monday.  
 (e)  $(5+9+4+8+6) = 32$   
 $(32 \times 5) = 160$ .

Ex 17.2

- 1 (a) 4.  
 (b) green.  
 (c)  $(7-2) = 5$ .  
 (d)  $(4+2+3+7) = 16$ .

- 2) (a) 6.  
 (b)



- (c)  $(8-4) = 4$ .  
 (d) motobike.  
 (e) motobike and Van.  
 (f)  $(12+10+4+6+8+4) = 34$ .

- 3) (a) 7  
 (b) banana.  
 (c)  $(9-4) = 5$   
 (d)  $(4+7+10+9+12+10) = 52$ .

- 4) (a) Soccer.  
 (b)  $(5-2) = 3$ .  
 (c) Ice hockey and volleyball.  
 (d) Beach volleyball.  
 (e) Baseball.  
 (f)  $(9+5+2+6+10+11+6) = 49$ .

END