Answers - Above All -   Maths G5

Pg1 Ex1

(a) 56   (b) 47   (c) 980   (d) 7612

(e) 1001   (f) 43846   (g) 53219.

(h) 99026   (i) 20013.

Pg1 Ex2

(a) Twenty five.

(b) seventy nine.

(c) One hundred and twenty three.

(d) Three hundred and eighty one.

(e) Five thousand three hundred and forty six.

(f) Nine thousand six hundred and seventy two.

(g) Eighty seven thousand four hundred and sixty five.

(h) Fifty six thousand three hundred and forty seven.

(i) Twenty one thousand four hundred and fifty.

(j) Ninety eight thousand seven hundred and sixty five.

(k) Eighty four thousand two hundred and nineteen.

(b) = 5 ten thousands + 8 thousands + 3 hundreds + 2 tens + 7 units.

$= (5 \times 10000) + (8 \times 1000) + (3 \times 100) + (2 \times 10) + (7 \times 1)$

$= 50000 + 8000 + 300 + 20 + 7.$

(c) 60569 = 6 ten thousands + 5 hundreds + 6 tens + 9 units.

$= (6 \times 10000) + (5 \times 100) + (6 \times 10) + (9 \times 1).$

$= 60000 + 500 + 60 + 9.$

(d) 89043 = 8 ten thousands + 9 thousands + 4 tens + 3 units.

$= (8 \times 10000) + (9 \times 1000) + (4 \times 10) + (3 \times 1)$

$= 80000 + 9000 + 40 + 3.$

(e) 13496 = 1 ten thousand + 3 thousands + 4 hundred + 9 tens + 6 units.

$= (1 \times 10000) + $

$= 10000 + 3000 + 400 + 90 + 6.$

(f) 73054 = 7 ten thousand + 3 thousands + 5 tens + 4 units.

$= (7 \times 10000) + (3 \times 1000) + (5 \times 10) + (4 \times 1)$

$= 70000 + 3000 + 50 + 4.$

Pg3 Ex4

(a) 25647   (b) 70862   (c) 74324.

(e) 35792   (d) 156458   (f) 40706.

Pg3 Ex5

(a) 400   (b) 70000   (c) 6

(d) 2000   (e) 80   (f) 9000

Pg3 Ex6

(a) 9   (b) 50   (c) hundred

(d) 7   (e) unit.

Pg4 Ex7

(a) 6   (b) 50000   (c) hundred.

(d) 8   (e) unit.

Pg4 Ex8

(a) 98651   (b) 15689.

Pg4 Ex9

(a) 76320   (b) 02367.

Pg2 Ex3

Pg5 Ex10

(a) 483, 823, 832, 912.

(b) 3947, 5647, 8157, 9674.

(c) 8676, 8677, 8766, 8767.

(d) 19814, 19816, 19841, 19861.

Pg5 Ex11

(a) 963, 693, 396, 369.

(b) 8532, 8452, 8423, 8325.

(c) 19321, 19132, 19123, 11293, 11239

(d) 26931, 26391, 26319, 26139.

(a) 8960   (b) 47986   (c) 4830

(d) 78332   (e) 6533   (f) 78238.

Ex 2

(a) 7317   (b) 4147   (c) 69629   (d) 24788

Pg 6 Ex 3

(a) (8374 + 1359) = 9733   (b) 41615

(c) Roxy = (1296 + 1780) = 3076

Both = (3076 + 1296) = 4372.

(d) September = (1365 - 356) = 1009.

Two months = (1365 + 1009) = 2374.

Pg 7 Ex 4

(a) 4717   (b) 7846   (c) 2255

(d) 26 888   (e) 6548   (f) 3546.

Pg 7 Ex 5

(a) 22090   (b) 66848   (c) 28629   (d) 56166

Pg 8 Ex 6

(a) (407 - 256) = 151 kg.

(b) laptop = [45636 - 11356] = Rs 34280.

(c) Sunday = [12853 - 7389] = 5464 flowers

(d) (i) [10875 - 9396] = Rs 1479.

(ii) [9396 - 7023] = Rs 2373.

Pg 8 Ex 7

(a) 19100   (b) 14950   (c) 18061.

(d) 20255   (e) 40200.

Pg 9 Ex 9

(a) More = (12545 - 10545) = 2000 stamps

(b) Altogether = (12545 + 10545) = 23090 stamps

Ex 10

Lucas = (41540 + 3896) = 45436.

Louis = [45436 + 8423] = 53859.

In all = [41540 + 45436 + 53859] = 140835

Pg 9 Ex 8

Distributed = [56312 - 4896] = 51416. books

Pg 9 Ex 11

Feroz = (6381 - 2156) = 4225.

Enzo = (4225 + 4352) = 8577.

Total = (6381 + 4225 + 8577) = 19183. stickers

Pg 10 Ex 1

(a) 462.   (b) 12936   (c) 24520.

(d) 6445   (e) 63402   (f) 65912.

Pg 10 Ex 2

(a) 33460   (b) 16580   (c) 4440.

(d) 12360   (e) 42350   (f) 15360.

(g) 20230   (h) 45360   (i) 71010

Pg 11 Ex 3

(a) 1008   (b) 888   (c) 44604   (d) 39064.

Pg 11 Ex 4

Pins = (35 × 40) = 1400.

Pg 11 Ex 5

Peaches = (235 × 48) = 11280.

Pg 12 Ex 6

(a) 243   (b) 128   (c) 156   (d) 103.

(e) 112   (f) 15321   (g) 9368

Pg 12 Ex 7

(a) 82   (b) 940   (c) 35.

(d) 42   (e) 17   (f) 16.

Pg 13 Ex 8

(a) 54   (b) 83   (c) 85.   (d) 54.

Pg 14 Ex 9

(a) 48 R.5   (b) 182 R 8.

(c) 248 R 4   (d) 269 R 13.

2

Pg 15 Ex10.

$$\frac{8930}{10} = 893$$

Ex11.

$(2016 \div 48) = 42.$

Pg 15 Ex1.

Adults = $(3478 + 3138) = 6616.$

Children = $(15813 - 6616) = 9257.$

Ex2

42 pupils = $(42 \times 15) = 630.$

N° of pencils = $(630 + 19) = 649.$

Pg 16 Ex3.

(a) $(94766 - 6246) = \frac{88520}{2} = 44260$

   Adults = $44260.$

(b) children = $(44260 + 6246) = 50506.$

Ex4

given 8 friends = $(52 \times 8) = 416.$

left = $(2386 - 416) = 1970.$

1 album = $(1970 \div 10) = 197.$

Ex5

Good balloons = $(5396 - 976) = 4420.$

N° of Packs = $(4420 \div 20) = 221$

Ex6 . N° of oranges = $(96 \times 24) = 2304.$

N° of bigger crates = $(2304 \div 36) = 64$

Pg17. Ex1 ⑥ 13 ⑭ ⑳ 47 ㊺ ⑩⓪.

Ex2. ① ⑨ 8̶1̶ 96 ㉝ ⑩③, 994.

Ex3   121

Ex4   225.

Ex5   16, 25, 36, 49, 64, 81.

Pg 18 Ex1

(a) 10, 12, 14   (b) 25, 28, 31

(c) 25, 30, 35   (d) 140, 148, 156.

(e) 355, 366, 377   (f) 180, 200, 220

(g) 610, 612, 614   (h) 325, 350, 375

Ex2

(a) 32, 64.   (b) 40, 80

(c) 128, 512   (d) 108, 324.

(e) 343, 2401   (f) 216, 1296.

(g) 512, 4096   (h) 729, 6561.

(i) 125, 625   (j) 56, 112

Pg18 Ex3.

(a) 26, 25, 24   (b) 10, 8, 6.

(c) 90, 85, 80   (d) 504, 501, 498.

(e) 44, 39, 34.   (f) 225, 200, 175.

(g) 1010, 1005, 1000 (h) 76, 64, 52.

Pg 19 Ex4.

(a) 16, 8   (b). 20, 10.

(c) 70, 7   (d). 12, 4.

(e) 28, 14   (f) 25, 5

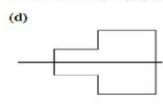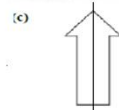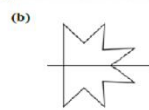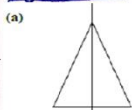(g) 16, 4.   (h). 32, 8

Pg 20 Ex1

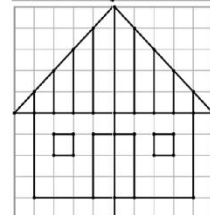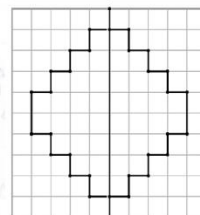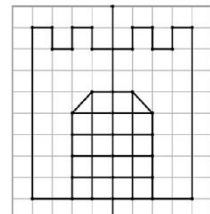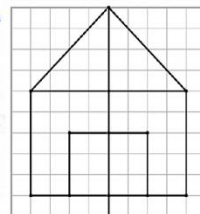(a) Yes   (b) NO   (c) NO.

(d) Yes   (e) NO   (f) Yes.

Pg 20 Ex2.

Pg 21 Ex3.

Pg 22 Ex1

(a) is less than a right angle.

(b) is a right angle.

(c) is more than a right angle.

Pg22 Ex 2

(a) less than.   (b) more than
(c) right angle   (d) right angle.
(e) less than   (f) more than.

Pg 23 Ex 3

(a) 4   (b) 2   (c) 0.
(d) 0   (e) 0   (f) 1.

Pg 23 Ex 4

(a) r   (b) p   (c) q

Pg 24 Ex 1

(a) 1   (b) 2   (c) 3.
(d) 4   (e) $(3 \times 4) = 12$ (f) $(5 \times 4) = 20$.

Pg 24 Ex 2

(a) quarter turn   (b) full turn
(c) three-quarter turn   (d) half turn.

Pg 25 Ex 3

(a) Park   (b) supermarket.
(c) Train station   (d) south.
          (e) North-west.

Pg 25 Ex 4
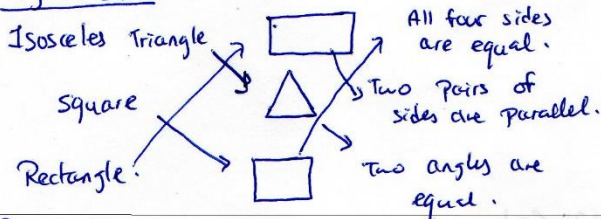
(a) North.   (b) South.
(c) East   (d) west.

Pg 26 Ex 1

(a) Isosceles   (b) right-angled
(c) equilateral   (d) right-angled.
(e) equilateral   (f) Isosceles.

Pg 27 Ex 2.

(a) PQ = QR   (c) AC = BC.
(b) angle P = angle R   (d) Angle A = Angle B.

Pg 28 Ex 3

Isosceles Triangle → All four sides are equal.
Square →
Rectangle → Two pairs of sides are parallel.
Two angles are equal.

Pg 28 Ex 4

(a) Rectangle   (b) square.
(c) Parallelogram   (d) Kite.

Pg 29 Ex 1

(a) $\frac{1}{8}$ (b) $\frac{1}{4}$ (c) $\frac{1}{2}$.
(d) $\frac{1}{6}$ (e) $\frac{1}{16}$ (f) $\frac{3}{8}$.

Pg 30 Ex 2

(a) one half   (b) two thirds.
(c) three quarters   (d) one tenth.
(e) five sixths.   (f) six sevenths.
(g) four eighths.   (h) nine tenths.

Pg 30 Ex 3.

(a) $\frac{1}{2}$ (b) $\frac{5}{8}$ (c) $\frac{7}{9}$ (d) $\frac{8}{10}$ (e) $\frac{4}{7}$ (f) $\frac{3}{5}$

Pg 30 Ex 4

(a) 4   (b) 4   (c) 14.
(d) 24.   (e) 3   (f) $\frac{66}{11} = 6$.
(g) $(9 \times 5) = 45$ (h) $(7 \times 3) = 21$ (i) $60 \times 3 = 180$

Pg 31 Ex 5 $\frac{1}{4}$ and $\frac{2}{8}$.

Pg 31 Ex 6.

1) $2\frac{1}{2}$ 2) $1\frac{1}{4}$ 3) $1\frac{2}{3}$ 4) $1\frac{1}{6}$
5) $2\frac{3}{4}$ 6) $3\frac{1}{3}$ 7) $1\frac{4}{5}$ 8) $2\frac{5}{6}$.
9) $2\frac{2}{3}$ 10) $3\frac{3}{5}$

Pg 31 Ex 7

(a) $5\frac{2}{5}$, $5\frac{4}{5}$, $6\frac{2}{5}$ (b) $3\frac{3}{6}$, $3\frac{4}{6}$, $4\frac{2}{6}$.
(c) $7\frac{5}{8}$, $7\frac{6}{8}$, 8, $8\frac{1}{8}$.
(d) $1\frac{3}{5}$, 2, $2\frac{2}{5}$, $2\frac{3}{5}$, 3.

Pg 32 Ex 8

(a) $\frac{7}{4}$ (b) $\frac{8}{3}$ (c) $\frac{7}{5}$ (d) $\frac{18}{5}$.
(e) $\frac{17}{6}$ (f) $\frac{34}{7}$ (g) $\frac{12}{8}$ (h) $\frac{39}{10}$

Pg 32 Ex 9.

(a) $\frac{5}{7}$ (b) $\frac{6}{11}$.
(c) $\frac{2}{3} + \frac{1}{6} = \frac{4}{6} + \frac{1}{6} = \frac{5}{6}$.
(d) $\frac{1 \times 3}{4 \times 3} + \frac{5}{12} = \frac{3}{12} + \frac{5}{12} = \frac{8}{12}$
(e) $\frac{3 \times 3}{5 \times 3} + \frac{4}{15} = \frac{9}{15} + \frac{4}{15} = \frac{13}{15}$

4

(f) $\frac{3}{14} + \frac{5\times2}{7\times2} = \frac{3}{14} + \frac{10}{14} = \frac{13}{14}$.

(g) $\frac{1\times2}{3\times2} + \frac{1\times3}{2\times3} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$.

(h) $\frac{2\times4}{5\times4} + \frac{3\times5}{4\times5} = \frac{8}{20} + \frac{15}{20} = \frac{23}{20}$.

Pg 33 Ex 10

(a) $5\frac{6}{9}$ 　　　　(b) $4\frac{12}{13}$

(c) $2\frac{1}{4} + 1\frac{3}{8} = 3\frac{1\times2}{4\times2} + \frac{3}{8} = 3\frac{2}{8} + \frac{3}{8} = 3\frac{5}{8}$.

(d) $3\frac{5}{12} + 1\frac{1}{4} = 4\frac{5}{12} + \frac{1\times3}{4\times3} = 4\frac{5}{12} + \frac{3}{12} = 4\frac{8}{12}$.

(e) $2\frac{1}{9} + 3\frac{1}{3} = 2\frac{1}{9} + 3\frac{1\times3}{3\times3} = 5\frac{1}{9} + \frac{3}{9} = 5\frac{4}{9}$.

(f) $1\frac{3}{20} + 5\frac{3\times5}{4\times5} = 1\frac{3}{20} + 5\frac{15}{20} = 6\frac{18}{20}$.

(g) $2\frac{3}{5} + 1\frac{1}{9} = 2\frac{3\times9}{5\times9} + 1\frac{1\times5}{9\times5} = 2\frac{27}{45} + 1\frac{5}{45}$
$= 3\frac{32}{45}$.

(h) $1\frac{5}{18} + 2\frac{7}{12} = 1\frac{5\times2}{18\times2} + 2\frac{7\times3}{12\times3}$
$= 1\frac{10}{36} + 2\frac{21}{36}$.
$= 3\frac{31}{36}$.

Pg 34 Ex 11.

(a) $\frac{4}{7}$ 　　　　(b) $\frac{6}{9}$.

(c) $\frac{11}{12} - \frac{5\times2}{6\times2} = \frac{11}{12} - \frac{10}{12} = \frac{1}{12}$.

(d) $\frac{1\times5}{3\times5} - \frac{4}{15} = \frac{5}{15} - \frac{4}{15}$
$= \frac{1}{15}$.

(e) $\frac{11}{16} - \frac{1\times4}{4\times4} = \frac{11}{16} - \frac{4}{16} = \frac{7}{16}$.

(f) $\frac{19}{21} - \frac{2\times7}{3\times7} = \frac{19}{21} - \frac{14}{21} = \frac{5}{21}$.

(g) $\frac{4}{5} - \frac{2}{3} = \frac{4\times3}{5\times3} - \frac{2\times5}{3\times5} = \frac{12}{15} - \frac{10}{15} = \frac{2}{15}$

(i) $\frac{5}{9} - \frac{3}{7} = \frac{5\times7}{9\times7} - \frac{3\times9}{7\times9} = \frac{35}{63} - \frac{27}{63}$
$= \frac{8}{63}$.

Pg 35 Ex 12

(a) $\frac{2}{5}$ 　　　　(b) $\frac{5}{6}$.

(c) $3 - 1\frac{3}{9} = 2 - \frac{8}{9} = 1\frac{1}{9}$.

(d) $10 - 9\frac{3}{7} = 1 - \frac{3}{7} = \frac{4}{7}$

Pg 35 Ex 13.

(a) $5\frac{1}{2} - 2\frac{3}{10} = 3\left(\frac{1\times5}{2\times5} - \frac{3}{10}\right) = 3\frac{5}{10} - \frac{3}{10} = 3\frac{2}{10}$

(b) $2\frac{1}{3} - 1\frac{1}{6} = 1\left(\frac{1\times2}{3\times2} - \frac{1}{6}\right) = 1\frac{2}{6} - \frac{1}{6} = 1\frac{1}{6}$

(c) $3\frac{4}{9} - 2\frac{1}{3} = 1\frac{4}{9} - \frac{1\times3}{3\times3} = 1\frac{4}{9} - \frac{3}{9} = 1\frac{1}{9}$

(d) $3\frac{2}{3} - 1\frac{1}{5} = 2\frac{2\times5}{3\times5} - \frac{1\times3}{5\times3} = 2\frac{10}{15} - \frac{3}{15}$
$= 2\frac{7}{15}$

(e) $2\frac{5}{7} - 1\frac{3}{4} = 1\frac{5\times4}{7\times4} - \frac{3\times7}{4\times7} = 1\frac{20}{28} - \frac{21}{28}$
$= 1 - \frac{1}{28} = \frac{27}{28}$

(f) $4\frac{1}{6} - 2\frac{2}{3} = 2\frac{1}{6} - \frac{2\times2}{3\times2} = 2\frac{1}{6} - \frac{4}{6}$.
$= 2 - \frac{3}{6} = 1\frac{3}{6}$

Pg 36 Ex 14.

(a) $7 \times \frac{1}{3} = \frac{7}{3}$ 　　　(b) $\frac{1}{3} \times 4 = \frac{4}{3}$.

(c) $\frac{5}{6} \times \overset{2}{12} = 10$ 　　　(d) $\overset{6}{18} \times \frac{1}{3} = 6$.

(e) $\frac{3}{\underset{2}{8}} \times \overset{5}{20} = \frac{15}{2}$. 　　　(f) $\overset{5}{30} \times \frac{5}{\underset{4}{24}} = \frac{25}{4}$.

(g) $\frac{2}{\underset{4}{20}} \times 8 = 2$. 　　　(h) $\frac{9}{\underset{2}{42}} \times 21 = \frac{9}{2}$.

Pg 36 Ex 15

(a) $1\frac{2}{3} \times 15 = (1\times15) + \left(\frac{2}{3} \times \overset{5}{15}\right) = 15 + 10 = 25$

(b) $2\frac{3}{5} \times 20 = (2\times20) + \left(\frac{3}{5} \times \overset{4}{20}\right) = 40 + 12 = 52$

(c) $3\frac{1}{6} \times 18 = (3\times18) + \left(\frac{1}{6} \times 18\right) = 54 + 3 = 57$

5

(d) $4\frac{3}{4} \times 8 = (4\times8) + (\frac{3}{4}\times8) = 32+6 = 38$

(e) $10 \times 1\frac{1}{2} = (10\times1) + (10\times\frac{1}{2}) = 10+5 = 15$

(f) $1\frac{5}{12} \times 8 = (1\times8) + (\frac{5}{12}\times8) = 8 + \frac{10}{3} = 8+3\frac{1}{3}$
$= 11\frac{1}{3}$

22) $(\frac{3}{8}\times10) = 6 \cdot pizza.$

23) $(\frac{3}{4}\times4) = 3\ km$

24) $\frac{1}{3}\div4 = \frac{1}{3}\times\frac{1}{4} = \frac{1}{12}.$

Pg 37 Ex 16

(a) $1\frac{4}{3}$

(b) $\frac{8}{7}$

(c) $\frac{7}{10}$

(d) $\frac{4}{1} = 4$

(e) $\frac{9}{1} = 9$

(f) $\frac{1}{5}$

(g) $\frac{1}{8}$

(h) $\frac{8}{1} = 8$

(i) $\frac{1}{2}$

25) $\frac{1}{2}\div4 = \frac{1}{2}\times\frac{1}{4} = \frac{1}{8}\ kg.$

26) $\frac{1}{4}\div5 = \frac{1}{4}\times\frac{1}{5} = \frac{1}{20}\ L.$

27) $\frac{4}{3}\times\overset{2}{4} = \frac{8}{3}\ kg$

Pg 37 Ex 17

(a) $\frac{1}{5}\div4 = \frac{1}{5}\times\frac{1}{4} = \frac{1}{20}.$

(b) $\frac{1}{3}\div2 = \frac{1}{3}\times\frac{1}{2} = \frac{1}{6}.$

(c) $\frac{2}{3}\div6 = \frac{2}{3}\times\frac{1}{6} = \frac{1}{9}.$

(d) $\frac{4}{5}\div60 = \frac{4}{5}\times\frac{1}{60} = \frac{1}{75}$

(e) $2\frac{1}{4}\div18 = \frac{9}{4}\times\frac{1}{18} = \frac{1}{8}.$

(f) $3\frac{3}{5}\div6 = \frac{18}{5}\times\frac{1}{6} = \frac{3}{5}.$

(g) $4\frac{3}{4}\div19 = \frac{19}{4}\times\frac{1}{19} = \frac{1}{4}.$

(h) $1\frac{1}{3}\div8 = \frac{4}{3}\times\frac{1}{8} = \frac{1}{6}.$

Pg 40 Ex 1

(a) $0.4 = \frac{4}{10} =$ four tenths.

(b) $0.7 = \frac{7}{10} =$ seven tenths.

(c) $0.9 = \frac{9}{10} =$ nine tenths.

(d) $2.5 = 2\frac{5}{10} =$ two and five tenths.

(e) $1.6 = 1\frac{6}{10} =$ One and six tenths.

(f) $10.3 = 10\frac{3}{10} =$ ten and three tenths.

(g) $25.8 = 25\frac{8}{10} =$ twenty five and eight tenths.

Pg 40 Ex 2

(a) $0.02 = \frac{2}{100} =$ two hundredths.

(b) $0.09 = \frac{9}{100} =$ nine hundredths.

Pg 38 Ex 18

In all $= \frac{3}{4} + \frac{1\times2}{2\times2} = \frac{3}{4} + \frac{2}{4} = \frac{5}{4}\ h.$

19) Together $= 1\frac{1}{4} + 2\frac{1}{2} = 3\frac{1}{4} + \frac{1\times2}{2\times2} = 3\frac{1}{4} + \frac{2}{4}$
$= 3\frac{3}{4}.$

20) left $= 1 - \frac{3}{4} = \frac{1}{4}.$

21) $\frac{7\times2}{2\times2} - \frac{1}{4} = \frac{14}{4} - \frac{1}{4} = \frac{13}{4}$ or $3\frac{1}{4}.$

6

6

(c) $0.16 = \frac{16}{100}$ = Sixteen hundredths.

(d) $0.97 = \frac{97}{100}$ = Ninety seven hundredths.

(e) $6.04 = 6\frac{4}{100}$ = six and four hundredths.

(f) $2.86 = 2\frac{86}{100}$ = two and eighty six hundredths.

(g) $17.23 = 17\frac{23}{100}$ = seventeen and twenty three hundredths.

(h) $86.12 =$ Eighty six and twelve hundredths

Pg 41 Ex3

(a) 0.1, 0.2, 0.5, 0.8, 0.9.

(b) 0.5, 0.8, 1.1, 2.9, 8.3.

(c) 0.3, 2.0, 2.3, 4.5, 9.3.

(d) 0.30, 0.50, 0.67, 0.75, 0.90.

Pg 41 Ex 4.

(a) 6.5, 5.5, 5.2, 4.2, 0.2.

(b) 2.6, 1.9, 1.2, 0.8, 0.3.

(c) 9.6, 8.2, 7.1, 7.0, 6.2.

(d) 7.00, 3.28, 2.11, 1.49, 0.09

Pg 42 Ex5.

(a) 1.4   (b) 37.0   (c) 12.45

(d) 4.4   (e) 24.2   (f). 36.1

(g) 15.06   (h) 86.56   (i) 49.64.

Ex6

Altogether $= (20.40 + 36.50) =$ Rs 56.90

Ex7

Total $= (4.5+2.5+1.2) = 8.2g$.

Pg 43 Ex8

(a) 2.4   (b) 4.33   (c) 2.4.

(d) 3.57   (e) 11.1   (f) 1.4.

(g) 2.7   (h) 5.45   (i) 16.96.

(j) 5.93.   (k) 2.57   (l) 5.34.

Pg 44 Ex 7.

(a) 2, 8, 7

(b) 5, 2, 3

(c) 7, 6, 2

(d) 7, 4, 1, 8

(e) 8, 3, 5, 2

Pg 44 Ex 10.

(a) 2.45   (b) 3.87

(c) 71.36   (d) 53.09   (e) 14.50.

11) $(500 - 225.45) = 274.55$.

12) Total $= (2.5 + 1.75 + 3.25) = 7.5$.

13) used $= (2.8 + 5.1) = 7.9$.

left $= (19.3 - 7.9) = 11.4$.

14) More $= (30.7 - 27.9) = 2.8$.

Pg 45.

Ex 1 (b) 2^4 (c) 5^2 (d) 8^5 (e) 3^6 (f) 9^3

Ex 2

(b) $2^6 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$ (c) $5^4 = 5 \times 5 \times 5 \times 5$.

(d) $8^7 = 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$.

(e) $3^5 = 3 \times 3 \times 3 \times 3 \times 3$.   (f) $9^5 = 9 \times 9 \times 9 \times 9 \times 9$

Ex 3

(b) $9^2 \times 10^2 = (9 \times 9) + (10 \times 10) = 81 + 100 = 181$

(c) $6^2 \times 3^3 = (6 \times 6) + (3 \times 3 \times 3) = 36 + 27 = 63$.

(d) $2^4 + 5^3 = (2 \times 2 \times 2 \times 2) + (5 \times 5 \times 5) = 16 + 125 = 141$

Ex 4

(b) $10^2 - 5^2 = (10 \times 10) - (5 \times 5) = 100 - 25 = 75$

(c) $11^2 - 3^3 = (11 \times 11) - (3 \times 3 \times 3) = 121 - 27 = 94$.

(d) $9^2 - 4^2 = (9 \times 9) - (4 \times 4) = 81 - 16 = 65$

Ex 5

(b) $9^2 \times 10^2 = (9 \times 9) \times (10 \times 10) = 81 \times 100 = 8100$

(c) $2^3 \times 4^2 = (2 \times 2 \times 2) + (4 \times 4) = 8 \times 16 = 128$

(d) $6^2 \times 3 = (6 \times 6) \times 3 = 36 \times 3 = 108$

Ex 6

(b) 3^1 (c) 5^4 (d) $\frac{8 \times 8}{2 \times 2 \times 4} = 8 = 2^3$

7

(a) $A = \frac{5+6+10}{3} = \frac{21}{3} = 7$

(b) $A = \frac{5+15}{2} = \frac{20}{2} = 10$

(c) $A = \frac{8+9+5+10}{4} = 8$

(d) $A = \frac{1+2+3+4+5}{5} = \frac{15}{5} = 3$

(e) $A = \frac{18+21+15}{3} = \frac{54}{3} = 18$

(f) $A = \frac{8+3+4+3+2}{5} = \frac{20}{5} = 4$

Ex2

Total $= (87 + 93 + 102) = 282$

$A = \frac{282}{3} = 94$

Ex3

Total $= (181 + 178 + 156 + 162 + 171) = 850$

$A = \frac{850}{5} = 170$ cm.

Ex4

Sum $= (42 \times 6) = 252$

Ex5

Total $= (87 \times 6) = 522$

Total of five $= (73 + 84 + 86 + 91 + 92)$
$= 426$

Missing grade $= (522 - 426) = 96$

Ex6

weight of 7 boys $= [56 \times 7] = 392$ kg.

6 boys $= [52 + 57 + 55 + 60 + 59 + 55] = 338$ kg

7th boy $= (392 - 338) = 54$ kg.

Ex7 Sum of 8 numbers $= (22 \times 8) = 176$

Sum of 7 number $= (19 \times 7) = 133$

Number removed $= (176 - 133)$
$= 43$

N°1 $(12 \times 8) = 96$

N°2 $(60 \times 7) = 420$

N°3 $(12 \times 6) = 72$

N°4 $(20 \times 36) = 720$

N°5 8 cookies → 4 cups

1 cooky → $\frac{4}{8}$

24 cookies → $\left(\frac{4}{8} \times 24\right) = 12$ ←

N°6 5 hours → 60 bottles.

1 hour → $\frac{60}{5}$

3 hour → $\left(\frac{60}{5} \times 3\right) = 36$ ←

N°8 12 muffins → 400 g.

1 muffin → $\frac{400}{12}$

240 muffin → 8000 g.

N°7

13 candy → Rs 26

1 candy → $\frac{26}{13} = 2$

35 candy → $(2 \times 35) = $ Rs 70.

Pg 49

1 (a) $7 : 14 \,\,\rangle \div 7$
$\quad\quad 1 : 2$

(b) $24 : 36 \,\,\rangle \div 4$
$\quad\quad 6 : 9$
$\quad\quad 2 : 3 \,\,\rangle \div 3$

(c) $40 : 70 \,\,\rangle \div 10$
$\quad\quad 4 : 7$

(d) $21 : 7 \,\,\rangle \div 7$
$\quad\quad 3 : 1$

2) girls : boys
$\quad 16 : 24 \,\,\rangle \div 4$
$\quad\quad 4 : 6 \,\,\rangle \div 2$
$\quad\quad 2 : 3$

3) pencils : pens.
$\quad 14 : 21 \,\,\rangle \div 7$
$\quad\quad 2 : 3$

4). Blue : All.
$\quad 4 : 16 \,\,\rangle \div 4 \quad\quad \frac{12}{\frac{4}{16}}$
$\quad 1 : 4$

8

Girl : All

24 : 32) ÷8

3 : 4

$\frac{24}{8}$
$\frac{}{32}$

Pg 50 Ex6

Tomatoes : red apples.

×10 (2 : 5) ×10
    20 : 50   Ans = 50.

7) Paul : Sam.

×6 (3 : 2) ×6   Ans = 12.
    18   12

8) Burgers : Pizzas.   Total.
      18 : 10)×9   28)×9.
     162)×9 90)×9. 252.
                              Ans: 162

9). First : Second

×9 (8 : 7) ×9
    72 : 63.   Ans. 63.

Pg 51 Ex1.

(a) .700   (b) 400   (c) 500.

(d) 900   (e) 1400   (f) 800.

Pg 51 Ex2

(a) 3   (b) 6   (c) 1

(d) 10   (e) 16   (f) 19.

Ex3

(a) 80   (b) 160   (c) 230.

(d) 100   (e) 2000   (f) 1900.

Ex4

(a) 70   (b) 4   (c) 5.

(d) 9   (e) 18   (f) 80

Pg 52 Ex5.

(a) 7m 90 cm   (b). 82cm 6mm.

(c) .6m 65 cm   (d). 51cm 9mm.

(e) 11m 25cm   (f). 171 cm 0mm.

(g) 4m 85cm   (h). 30 cm 4mm.

Ex6 Altogether = (42+85) = 127 m.

7) Taller = (100-90) = 10 cm.

8) Track = $\frac{360}{3}$ = 120m.

9) (a) (65×4) = 260 cm.

(b) (260-65) = 195 cm.

Pg 54 Nº10

(a) (3+3+4) = 10 cm.

(b) (7+10+11) = 28 cm.

(c) (8+7+4) = 19 cm.

Pg 54 Nº 11

Two Sides = (32+27) = 59.

Third side = (79-59) = 20.

12) Two sides = (42+36) = 78.

Third side = (96-78) = 18.

13 (a) (7×4) = 28cm   (b) (15×4) = 60cm   (c) (60×4) 240cm

14) length = $\frac{72}{4}$ = 18cm.

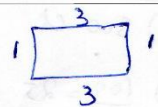15) length = $\frac{144}{4}$ = 36cm.

16) (a) (7+7+4+4) = 22 cm.

(b) (8+3+8+3) = 22 cm.

(c) (17+7+17+7) = 48 cm.

17) Perimeter hall = (21+17+21+17) = 76 m.

18) Total = (1+3+1+3) = 8.

width = $\frac{240}{8}$ = 30cm.

length = (30×3) = 90 m.

19) (6×2) = 12 cm²   (b) (10×7) = 70cm²

(c) (17×11) = 187 cm².

20) (a) (12×5) = 60 cm².

(b) ($\frac{96}{12}$) = 8cm.

(c) ($\frac{264}{8}$) = 33cm.

9

width $= \left(\dfrac{144}{24}\right) = 6 \, cm.$

22). $\dfrac{840}{6} = 140 \, cm.$

Pg 58 N°23

(a) $(4 \times 4) = 16 \, cm^2$ (b) $(10 \times 10) = 100 \, cm^2$

(c) $(8 \times 8) = 64 \, m^2$

24) (a) Area $= (5 \times 5) = 25 \, cm^2$

(b) 1 side $= 12 \, cm$

(c) 1 side $= 9 \, cm$

(d) Area $= (11 \times 11) = 121 \, cm^2$.

25) Area $= 15 \times 15 = 225.$

length $= 15 \, cm.$

26) length $= 16 \, cm$

Area $= 16 \times 16 = 256 \, cm^2$

Pg 59 Ex 27

(a) Area $= \dfrac{12 \times 5}{2} = 6 \times 5 = 30 \, cm^2.$

(b) Area $= \dfrac{8 \times 6}{2} = 4 \times 6 = 24 cm^2.$

(c) Area $= \dfrac{8 \times 10}{2} = 4 \times 10 = 40 \, cm^2$

(d) Area $= \dfrac{7 \times 12}{2} = 7 \times 6 = 42 \, cm^2.$

Pg 60 Ex1

(a) $500 \, cl$ (b) $900 \, cl$ (c) $\dfrac{100}{2} = 50 \, cl$

(d) $\dfrac{100}{4} = 25 \, cl$ (e) $4\frac{1}{2} = (4 \times 100) + (\frac{1}{2} \times 100)$
$= 400 + 50$
$= 450 \cdot cl$

(f) $6\frac{3}{4} = (6 \times 100) + (\frac{3}{4} \times 100)$
$= 600 + 75$
$= 675 \cdot cl$

Pg 60 Ex 2

(a) $\dfrac{500}{100} = 5 \, L$ (b) $\dfrac{7000}{100} = 70 \cdot l$

(c) $\dfrac{50}{100} = \dfrac{5}{10} = \dfrac{1}{2} \, L$ (d) $700 + 25$
$\dfrac{700}{100} + \dfrac{25}{100} = 7\frac{1}{4} \, l$

(e) $320 = \dfrac{300}{100} \cdots \dfrac{}{100} = \cdots = 3\frac{1}{5} \, L$

(f) $1050 = \dfrac{1000}{100} + \dfrac{50}{100} = 10 + \frac{1}{2} = 10\frac{1}{2} \, L.$

Pg 61 Ex3

(a) $8 L 00 \, cl.$ (b) $\cdot 88 \, L \, 21 \, cl.$

(c) $3L 34 \, cl.$ (d) $\cdot 67 \, L \, 67 \, cl.$

(e) $16 L 30 \, cl$ (f) $\cdot 20 L 36 cl.$

(g) $14 L 13 \, cl$ (h) $\cdot 15 L 07 cl.$

Pg 62 Ex4

(a) $(3 \times 1000) = 3000 \, ml$ (b) $(9 \times 1000) = 9000 \, ml$

(c) $(\frac{1}{4} \times 1000) = 250 \, ml$ (d) $2\frac{1}{2} = (2 \times 1000) + (\frac{1}{2} \times 1000)$
$= 2000 + 500.$
$= 2500 \, ml$

(e) $5\frac{3}{4} = (5 \times 1000) + (\frac{3}{4} \times 1000)$
$= 5000 + 750.$
$= 5750 \, ml$

(f) $6\frac{3}{10} = (6 \times 1000) + (\frac{3}{10} \times 1000)$
$= 6000 + 300$
$= 6300.$

Pg 63 Ex5

(a) $65 \, L \, 395 \, mL$ (b) $68 L 042 mL.$

(c) $4 L 158 \, mL$ (d) $31 L 077 \, mL.$

(e) $24 L 860 mL$ (f) $84 \, L \, 861 \, mL.$

(g) $11 L 225 mL$ (h) $17 L 435 mL.$

6) $(1050 + 350) = 1400$
$= 1 L \, 400 \, mL.$

7) $(250 \times 8) = 2000 \, mL$
$= 2 L.$

Pg 64 Ex8

(a) $7 \times 10 = 70.$ (d) $\dfrac{50}{10} = 5.$

(b) $15 \times 10 = 150.$ (e) $\dfrac{40}{10} = 4.$

(c) $20 \times 10 = 200$ (f) $\dfrac{100}{10} = 10.$

Ex9)
$(2360 - 810)$
$= 1550$
$= 1 L \, 550 mL$

Ex10.
$3\frac{1}{2} L = 300 + 50 = 350 cL.$
$Eric = (830 - 350) = 480.$
Altogether $= (830 + 480) = 13 L \, 10 \, cl$

Pg 64 No 11

(a) 360 mL, $(32 \times 10) = 320$ mL, $3l = 3000$ mL.

ascending order = 300, 320, 3000.

= 300 mL, 32 cL, 3L. ←

(b) 53 cL = 530 mL, $\frac{1}{2}l = 500$ mL, 510 mL.

Ascending order: 500 mL, 510 mL, 530 mL.

= $\frac{1}{2}$ L, 510 mL, 53 cL.

Pg 65 No 1

(a) 3000 g

(b) 9000 g

(c) 500 g

(d) $\left(\frac{2}{5} \times 1000\right) = 400$ g

(e) $2\frac{1}{4} = (2 \times 1000) + \left(\frac{1}{4} \times 1000\right)$

$= 2000 + 250$

$= 2250$ g

(f) $3\frac{3}{4} = (3 \times 1000) + \left(\frac{3}{4} \times 1000\right)$

$= 3000 + 750$

$= 3750$ g.

Pg 65 No 2

(a) $\frac{5000}{1000} = 5$ kg

(b) $\frac{7000}{1000} = 7$ kg

(c) $\frac{500}{1000} = \frac{1}{2}$ kg

(d) $\frac{400}{1000} = \frac{4}{10} = \frac{2}{5}$ kg

(e) $5250 = 5000 + 250$

$= \frac{5000}{1000} + \frac{250}{1000}$

$= 5 + \frac{1}{4} = 5\frac{1}{4}$ kg

(f) $6100 = 6000 + 100$

$= \frac{6000}{1000} + \frac{100}{1000}$

$= 6 + \frac{1}{10} = 6\frac{1}{10}$ kg.

Pg 66 Ex 3

(a) 62 kg 678 g

(b) 3 kg 383 g.

(c) 36 kg 043 g

(d) 10 kg 115 g

Ex 4 $(15695 - 12550) = 3$ kg 145 g.

Ex 5 $(2800 + 2250) = 5$ kg 050 g.

Pg 67 Ex 1

(a) Rs 2000

(b) Rs 598·50

(c) Rs 102.70

(d) 20 c

(e) Rs 230·

Pg 68 Ex 2

(a) 800

(b) 400

(c) 4000·

(d) 675

(e) 350

(F) 1020·

Pg 68 Ex 3

(a) $\frac{800}{100} = 8$

(b) $\frac{9000}{100} = 90$·

(c) $\frac{300}{100} + \frac{50}{100} = 3·50$

(d) $\frac{600}{100} + \frac{25}{100} = 6·25$

(e) $\frac{900}{100} + \frac{50}{100} = 9·50$

(F) $120 = \frac{100}{100} + \frac{20}{100}$

$= 1·20$

Pg 68 Ex 4

In all = $(450·50 + 355·25) = $ Rs 805·75

5) left = $(16·00 - 7·80) = $ Rs 8·20

6) $(3·25 \times 7) = $ Rs 22·75·

7) $\frac{1040}{4} = $ Rs 260·

Pg 69 Ex 1

(a) profit = $(48·60 - 27·50) = $ Rs 21·10·

2) Loss = $(490 - 465·50) = $ Rs 24·50

3) profit = $(18000 - 15000) = $ Rs 3000·

4) Selling price = $(15290 + 3200) = $ Rs 18490

5) Cost price = $(1280 + 590) = $ Rs 1870

6) BP = $(95 \times 12) = $ Rs 1140·

SP = $(125 \times 12) = 1500$

Profit = $(1500 - 1140) = $ Rs 360·

7) S·P = $(10 \times 58) = 580$·

Profit = 160·

B·P = $(580 - 160) = 420$·

B P of 1 glass = $\frac{420}{60} = 7$

Pg 70 Ex8

1 tray = 30.
5 trays = (30×5) = 150.
SP = 150−6 = 144.
SP = (144×4) = 576.
Profit = (576 − 375) = Rs 201.

9) 1 tray = 40.
9 trays = (40×9) = 360.
S.P = (360−6) = 354.
S.P = (354×6) = 2124.
B.P = (175×9) = 1575.
Profit = Rs 549.

10) B.P in 3 box = (2×50×3) = 300.
B.P in 6 box = (3×50×6) = 900.
Total B.P = (360 + 900) = Rs 1200.
S.P = (50 × 5 × 9) = 2250.
Profit = (2250 − 1200) = Rs 1050.

Pg 71 Ex1

(a) (3×60) = 180

(b) (10×60) = 600.

(c) ($\frac{1}{4}$×60) = 15

(d) ($\frac{1}{3}$×60) = 20.

(e) $3\frac{1}{2}$ = (3×60) + ($\frac{1}{2}$×60)
= 180 + 30
= 210

(f) $1\frac{3}{4}$h = (1×60) + ($\frac{3}{4}$×60).
= 60 + 45
= 105

Pg 72 Ex2

(a) $\frac{120}{60}$ = 2

(b) $\frac{360}{60}$ = 6.

(c) $\frac{15}{60}$ = $\frac{1}{4}$

(d) $\frac{90}{60}$ = $\frac{3}{2}$ = $1\frac{1}{2}$h

Pg 72 Ex3

(a) 1 20
  5 16
  6 36.
  6h 36min

(b) 5 24
  2 28
  7 52
  7h 52min.

(c) 7h 35 min
  2h 45 min
  9h 80
  +1   60 −
  10h 20min. ←

(d) 3h 25min
  1h 50
  4h 75
  +1   60 −
  5h 15 min

(e) 1h 45 min.
  20 min
  1h 65
  +1 60 −
  2h 05 min ←

(f) 3h 40min
  1h 20 min
  4h 60 min.
  +1 60 −
  5h 00 ←

Pg 73 Ex4

(a) 6 58
  − 2 14
  4h 44min

(c) 6   60
  7h 20 min.
  2h 40 min
  4h 40 min

(e) 6   60
  7h 10 min.
  4h 38 min
  2h 32 min.

(b) 5h 25 min
  3h 17 min
  2h 08 min

(d) 4   60
  5h 05 min
  1h 15 min
  3h 50 min

(f) 9   60
  10h 00
  − 3h 48
  6h 12min

Pg 74 Ex5

(a) 2h 25
  × 2
  4h 50min.

(b) 35 min.
  × 3
  1050
  +1 60 −
  1h 45 min

(c) 40
  × 3
  120 min
  = 2h.

(d) 2h 13 min.
  × 4
  8h 52min

(e) 1h 27
  × 3
  3h 81 min
  +1 60 −
  4h 21 min.

(f) 2h 53 min.
  × 4
  8h 212
  +3 180 −
  11h 32 min.

6). 5h 25
  × 6
  30 150
  +2 120 −
  32h 30 min

Pg 75 Ex 6

(a) 30 min

(b) 105 min.

(c) 1h 17 min

(d). 1h 03 min.

Ex 7

(a) $(7 \times 60) = 420$

(b) $(10 \times 60) = 600$.

(c) $\left(\frac{1}{3} \times 60\right) = 20$

(d) $1\frac{1}{4} = (1 \times 60) + \left(\frac{1}{4} \times 60\right)$
$= 60 + 15$
$= 75$

(e) $3\frac{1}{6} = (3 \times 60) + \left(\frac{1}{6} \times 60\right)$
$= 180 + 10$
$= 190 \text{ s}$.

(f) $3 min = (3 \times 60)$
$= 180$.
$(180 + 30) = 210 \text{ s}$.

Pg 76 Ex 8

$$\begin{array}{r} 2h\ 35\ min \\ 3h\ 15\ min \\ \hline 5h.\ 50 \end{array}$$

Ex 9

$2\frac{1}{2}h = 2h\ 30 min$.
$+ \qquad 1h\ 50$
$$\begin{array}{r} 3h\ 8\ 0 \\ +1h\ \ \ 60- \\ \hline 4h\ \ \ 20 min \end{array}$$

Ex 10

$$\begin{array}{r} 4h\ 45 \\ 2\ \ 25 \\ \hline 6h\ \ 7\ 0 \\ +1\ \ \ 60- \\ \hline 7h\ \ 10 min \end{array}$$

Ex 11

$$\begin{array}{r} 5\ \ \ \ 60 \\ 6:18 \\ - 4:55 \\ \hline 1h\ 23 min \end{array}$$

Ex 12

$$\begin{array}{r} 60 \\ 1\ 2h\ 35 \\ - \ \ \ \ 45 \\ \hline 1h\ \ 50 min \end{array}$$

Ex 13

$$\begin{array}{r} 11\ 30 \\ - 9\ 30 \quad 60 \\ \hline 2\ 0\ 0 \\ 30- \\ \hline 1h\ 30 min. \end{array}$$

1h 30min — 3 periods
1 period = 30 min

Pg 77 Ex 1

(a) $(5 \times 2) = 10$.

(b) $(2 + 1) = 3$.

(c) Yellow

(d) $(10 + 9 + 14 + 3) = 36$

Pg 78 Ex 2

(a) Saturday

(b) Monday & Friday.

(c) $(5 \times 2) = 10$.

(d) $(4-2) = 2 \times 5 = 10$

Pg 78 Ex 3

(a) $(8 \times 5) = 40$.

(b) Wednesday.

(c) Tuesday

(d) Monday.

(e) $(5 + 4) = 9 \times 5 = 45$.

(f) Friday.

(g) $(5 + 9 + 4 + 8 + 6) = 32$
$(32 \times 5) = \qquad 160$

Pg 79 Ex 4

1) 80 kg.

2) February.

3) $(85 - 60) = 25$ kg

4) $(70 + 55 + 60 + 85 + 80) = 350$ kg

Pg 80 Ex 5.

(a) apple.

(b) orange.

(c) $(6-5) = 1$

(d) $(8 + 6 + 4 + 5 + 3) = 26$ Children

Pg 80 Ex 6.

(a) 95

(b) $(85-50) = 35$.

(c) Saturday.

(d). $(70 + 110) = 180$.

(e). Friday.

13