



# **Solution of Mathematics Class 4**

# Unit 1

## Exercise 1A

- 1.** Make a place value chart with five places. Enter in it the digits of the numbers given below.  
**(a)**

T.Th	Th	H	T	O
6	5	4	9	4

**(b)**

T.Th	Th	H	T	O
5	1	3	6	2

**(c)**

T.Th	Th	H	T	O
9	0	8	0	0

**(d)**

T.Th	Th	H	T	O
8	0	0	5	2

**(e)**

T.Th	Th	H	T	O
4	6	0	1	7

**(f)**

T.Th	Th	H	T	O
3	3	4	3	2

- 2.** Read the numbers below written in the place value chart below.

Write them in words.

- a)** Two lac eighty three thousand and fifty six  
**b)** Five lac thirty seven thousand and six hundred and forty five

- c)** Four lac ninety eight thousand six hundred and ninety six

- 3.** Write in expanded form

- (a)**  $12000 + 900 + 50 + 0$
- (b)**  $3000 + 500 + 20 + 9$
- (c)**  $100 + 20$
- (d)**  $25000 + 80$
- (e)**  $89000 + 60 + 4$
- (f)**  $99000 + 100 + 4$

- 4.** Write each of the following numbers in figure:

- (a)** 15,512
- (b)** 359,219
- (c)** 5,053
- (d)** 812
- (e)** 348,102
- (f)** 364,926

- 5.** Write the number:

- (a)** 5343
- (b)** 35,227
- (c)** 54,205
- (d)** 25,394
- (e)** 63,107
- (f)** 82,036

- 6.** Write the place of:

- (a)** Hundreds
- (b)** Hundreds
- (c)** Thousands
- (d)** Hundreds

- 7.** Find the value of:

- (a)** 2 Th
- (b)** 5 H
- (c)** 2 Tens
- (d)** 4 Th
- (e)** 0 H
- (f)** 8 ones
- (g)** 7 Th

- (h) 2 Th
8. Identify the number in which the value of 4 is 4,000:
- 46,290
  - 24,300
  - 46,000
  - 94,624
  - 46,521
9. Can we write numbers in words:
- Forty eight thousand seven hundred and thirty six
  - Twenty four thousand three hundred ninety nine
  - Thirty one thousand and seventeen
  - Seventy four thousand five hundred and eighty
  - Ninety eight thousand four hundred and thirty four
  - Eighty five thousand five hundred and fifty five
  - Twenty six thousand eight hundred and forty five
  - Ninety three thousand nine hundred and seventy
  - Fifty three thousand one hundred and twenty five
  - Ninety eight thousand nine hundred and ninety nine
  - Sixty five thousand and fifty
  - Eighty two thousand and hundred

## Exercise 1B

1. Fill in the blanks.
- >
  - >
  - <
  - >
  - <
  - <
  - =
2. Find and write the greatest number:
- 5,320
  - 95,714
  - 70,621
3. Find the smallest number:
- 21,951
  - 30,172
  - 18,750
  - 21,768
4. Arrange the following in increasing border:
- 1,025 1,517 2,091 3,610 61,935
  - 351 11,678 12,500 21,015  
96,135
  - 18,905 21,519 56,827 75,861  
86,219
  - 19,007 26,871 36,572 45,341  
47,805
5. Arrange the following in decrease
- 62,519 26,501 25,009 9,165  
653
  - 85,371 56,785 43,519 25,017  
10,009
  - 81,526 71,076 54,839 28,263  
23,245
  - 91,730 91,703 46,300 35,725  
293

**Exercise 1C****1. Add the following.****a.**

$$\begin{array}{r}
 15329 \\
 +11276 \\
 \hline
 26605
 \end{array}$$

**b.**

$$\begin{array}{r}
 70193 \\
 +25684 \\
 \hline
 95877
 \end{array}$$

**c.**

$$\begin{array}{r}
 15025 \\
 +33869 \\
 \hline
 48894
 \end{array}$$

**d.**

$$\begin{array}{r}
 8542 \\
 +32790 \\
 \hline
 41332
 \end{array}$$

**e.**

$$\begin{array}{r}
 52579 \\
 +13908 \\
 \hline
 66487
 \end{array}$$

**f.**

$$\begin{array}{r}
 25421 \\
 +43789 \\
 \hline
 69210
 \end{array}$$

**g.**

$$\begin{array}{r}
 85126 \\
 +34196 \\
 \hline
 119322
 \end{array}$$

**h.**

$$\begin{array}{r}
 72053 \\
 +26987 \\
 \hline
 99040
 \end{array}$$

**2. Solve the following.****a.**

$$\begin{array}{r}
 1029 \\
 +3895 \\
 \hline
 4924
 \end{array}$$

**b.**

$$\begin{array}{r}
 3095 \\
 +195 \\
 \hline
 3290
 \end{array}$$

**c.**

$$\begin{array}{r}
 11275 \\
 +45862 \\
 \hline
 57137
 \end{array}$$

**d.**

$$\begin{array}{r}
 33215 \\
 +42970 \\
 \hline
 76185
 \end{array}$$

**e.**

$$\begin{array}{r}
 62954 \\
 +17890 \\
 \hline
 80844
 \end{array}$$

**f.**

$$\begin{array}{r}
 42507
 \end{array}$$

$$\begin{array}{r}
 +2319 \\
 \hline
 44826
 \end{array}$$

g.

$$\begin{array}{r}
 21523 \\
 +43972 \\
 \hline
 65495
 \end{array}$$

h.

$$\begin{array}{r}
 10297 \\
 +35142 \\
 \hline
 45439
 \end{array}$$

3. Solve the following problems:

a.

$$\begin{array}{r}
 30060 \\
 +29850 \\
 \hline
 59910
 \end{array}$$

b.

$$\begin{array}{r}
 14325 \\
 +13292 \\
 \hline
 27617
 \end{array}$$

c.

$$\begin{array}{r}
 21540 \\
 +12820 \\
 \hline
 34360
 \end{array}$$

d.

$$\begin{array}{r}
 12150 \\
 14120 \\
 +19670 \\
 \hline
 45940
 \end{array}$$

e.

$$\begin{array}{r}
 1052 \\
 2198 \\
 +3581 \\
 \hline
 6831
 \end{array}$$

f.

$$\begin{array}{r}
 12172 \\
 12509 \\
 +31312 \\
 \hline
 55993
 \end{array}$$

g.

$$\begin{array}{r}
 7520 \\
 639 \\
 +9201 \\
 \hline
 17360
 \end{array}$$

## Exercise 1D

1. Subtract:

a.

$$\begin{array}{r}
 4524 \\
 -2465 \\
 \hline
 2059
 \end{array}$$

b.

$$\begin{array}{r}
 7351 \\
 -2694 \\
 \hline
 4657
 \end{array}$$

c.

$$\begin{array}{r}
 3015 \\
 -1753 \\
 \hline
 1262
 \end{array}$$

d.

$$\begin{array}{r}
 43547 \\
 -41089 \\
 \hline
 2458
 \end{array}$$

e.

$$\begin{array}{r}
 44000 \\
 -25127 \\
 \hline
 18873
 \end{array}$$

f.

$$\begin{array}{r}
 63050 \\
 -15064 \\
 \hline
 27986
 \end{array}$$

g.

$$\begin{array}{r}
 94378 \\
 -42649 \\
 \hline
 51729
 \end{array}$$

h.

$$\begin{array}{r}
 46532 \\
 -22473 \\
 \hline
 24059
 \end{array}$$

i.

$$\begin{array}{r}
 93005 \\
 -61980 \\
 \hline
 31025
 \end{array}$$

**2. Find the difference:**

a)

$$\begin{array}{r}
 50000 \\
 -23561 \\
 \hline
 26439
 \end{array}$$

b)

$$\begin{array}{r}
 4019 \\
 -2513 \\
 \hline
 1506
 \end{array}$$

c)

$$\begin{array}{r}
 61958 \\
 -43175 \\
 \hline
 18783
 \end{array}$$

**3. Solve the following problems:**

a)

$$\begin{array}{r}
 17525 \\
 -13281 \\
 \hline
 4244
 \end{array}$$

b)

$$\begin{array}{r}
 79540 \\
 -43550 \\
 \hline
 35990
 \end{array}$$

c)

$$\begin{array}{r}
 14506 \\
 -9580 \\
 \hline
 4926
 \end{array}$$

d)

$$\begin{array}{r}
 17815 \\
 -1498 \\
 \hline
 16317
 \end{array}$$

e)

$$\begin{array}{r}
 64305 \\
 -12543 \\
 \hline
 51762
 \end{array}$$

f)

$$\begin{array}{r}
 8315 \\
 +2473 \\
 \hline
 10788
 \end{array}$$
  

$$\begin{array}{r}
 21735 \\
 -10788 \\
 \hline
 10947
 \end{array}$$

**Exercise 1E****1. Solve the following numbers.**

a)

$$\begin{array}{r}
 2463 \\
 \times 23
 \end{array}$$

b)	<b>56649</b>
c)	<b>4333</b> x11 <b>47663</b>
d)	<b>5284</b> x18 <b>95112</b>
e)	<b>3618</b> x27 <b>97686</b>
f)	<b>2350</b> x30 <b>70500</b>
g)	<b>1175</b> x80 <b>94000</b>
h)	<b>6101</b> x15 <b>91515</b>
i)	<b>1098</b> x23 <b>25254</b>
j)	<b>1813</b> x28 <b>50764</b>
	<b>5432</b> x19 <b>103208</b>

2.

<b>1842</b> x25 <b>45050</b>	
3.	<b>2320</b> x49 <b>113680</b>
4.	<b>2138</b> x3 <b>6414</b>
5.	<b>3659</b> x27 <b>98793</b>

## Exercise 1F

1. Divide and find the quotient:

a)

$$\begin{array}{r}
 172 \\
 2 \overline{)304} \\
 -2 \\
 \hline
 1 \\
 -1 \\
 \hline
 0 \\
 -0 \\
 \hline
 4 \\
 \hline
 0
 \end{array}$$

**b)**

$$\begin{array}{r} 69 \\ 1 \overline{)1352} \\ -8 \\ \hline 55 \\ -48 \\ \hline 72 \\ -72 \\ \hline 0 \end{array}$$

**c)**

$$\begin{array}{r} 386 \\ 6 \overline{)2316} \\ -18 \\ \hline 51 \\ -48 \\ \hline 36 \\ -36 \\ \hline 0 \end{array}$$

**d)**

$$\begin{array}{r} 71 \\ 2 \overline{)7626} \\ -6 \\ \hline 16 \\ -12 \\ \hline 42 \\ -42 \\ \hline 06 \\ -6 \\ \hline 0 \end{array}$$

**e)**

$$\begin{array}{r} 57 \\ 4 \overline{)2742} \\ -24 \\ \hline 34 \\ -30 \\ \hline 42 \\ -42 \\ \hline 0 \end{array}$$

**f)**

$$\begin{array}{r} 2169 \\ 4 \overline{)8676} \\ -8 \\ \hline 06 \\ -4 \\ \hline 27 \\ -24 \\ \hline 36 \\ -36 \\ \hline 0 \end{array}$$

**g)**

$$\begin{array}{r} 81 \\ 6 \overline{)5448} \\ -48 \\ \hline 64 \\ -64 \\ \hline 08 \\ -8 \\ \hline 0 \end{array}$$

**h)**

$$\begin{array}{r} 800 \\ 7 \overline{)5600} \\ -56 \\ \hline 000 \end{array}$$

i)

$$\begin{array}{r} 20 \\ 5 \overline{)4160} \\ -40 \\ \hline 16 \\ -16 \\ \hline 0 \end{array}$$

j)

$$\begin{array}{r} 334 \\ 1 \overline{)8004} \\ -6 \\ \hline 20 \\ -18 \\ \hline 20 \\ -18 \\ \hline 24 \\ -24 \\ \hline 0 \end{array}$$

k)

$$\begin{array}{r} 24 \\ 5 \overline{)4716} \\ -45 \\ \hline 21 \\ -18 \\ \hline 36 \end{array}$$

$$\begin{array}{r} -36 \\ \hline 0 \end{array}$$

l)

$$\begin{array}{r} 1705 \\ 4 \overline{)6820} \\ -4 \\ \hline 28 \\ -28 \\ \hline 020 \\ -20 \\ \hline 0 \end{array}$$

**2. Find the quotient and remainder:**

a...

$$\begin{array}{r} 1780 \\ 2 \overline{)3561} \\ -2 \\ \hline 15 \\ -14 \\ \hline 16 \\ -16 \\ \hline 01 \end{array}$$

b.

$$\begin{array}{r} 1374 \\ 3 \overline{)4123} \\ -3 \\ \hline 11 \\ -9 \\ \hline 22 \\ -21 \\ \hline 13 \end{array}$$

$$\begin{array}{r} -12 \\ \hline 1 \end{array}$$

c.

$$\begin{array}{r} 1661 \\ \hline 5 \overline{)8305} \\ -5 \\ \hline 33 \\ -30 \\ \hline 30 \\ -30 \\ \hline 05 \\ -5 \\ \hline 0 \end{array}$$

d.

$$\begin{array}{r} 279 \\ \hline 7 \overline{)1954} \\ -14 \\ \hline 55 \\ -49 \\ \hline 64 \\ -63 \\ \hline 1 \end{array}$$

e.

$$\begin{array}{r} 881 \\ \hline 8 \overline{)7050} \\ -64 \\ \hline 65 \\ -64 \\ \hline 10 \\ -8 \\ \hline 2 \end{array}$$

f.

$$\begin{array}{r} 972 \\ \hline 9 \overline{)8754} \\ -81 \\ \hline 65 \\ -63 \\ \hline 24 \\ -18 \\ \hline 6 \end{array}$$

h.

$$\begin{array}{r} 54 \\ \hline 6 \overline{)3271} \\ -30 \\ \hline 27 \\ -25 \\ \hline 21 \\ -20 \\ \hline 1 \end{array}$$

i.

$$\begin{array}{r} 877 \\ \hline 4 \overline{)3510} \\ -32 \\ \hline 31 \\ -28 \\ \hline 30 \\ -28 \\ \hline 2 \end{array}$$

j.

j..

$$\begin{array}{r}
 854 \\
 6 \overline{)5128} \\
 -48 \\
 \hline
 32 \\
 -30 \\
 \hline
 28 \\
 -24 \\
 \hline
 4
 \end{array}$$

Quotient = 42

Remainder = 0

b)

$$\begin{array}{r}
 87 \\
 16 \overline{)1392} \\
 -128 \\
 \hline
 112 \\
 -112 \\
 \hline
 0
 \end{array}$$

**3. Fill in the blanks**

- a) 25
- b) 1
- c) 39
- d) 1
- e) 1
- f) 55
- g) 0
- h) 1

Quotient = 87

Remainder = 0

c)

$$\begin{array}{r}
 90 \\
 15 \overline{)1355} \\
 -135 \\
 \hline
 05
 \end{array}$$

**Exercise 1G****1. Find the quotient and remainder:**

a)

$$\begin{array}{r}
 2 \\
 4 \overline{)504} \\
 -48 \\
 \hline
 24 \\
 -24 \\
 \hline
 0
 \end{array}$$

Quotient = 90

Remainder = 5

d)

$$\begin{array}{r}
 25 \\
 13 \overline{)8127} \\
 -78 \\
 \hline
 32 \\
 -26 \\
 \hline
 67
 \end{array}$$

$$\begin{array}{r} - 6 5 \\ \hline 2 \end{array}$$

Quotient = 625

Remainder = 2

e)

$$\begin{array}{r} 4 5 5 \\ 2 1 \overline{) 9 5 7 2} \\ - 8 4 \\ \hline 1 1 7 \\ - 1 0 5 \\ \hline 1 2 2 \\ - 1 0 5 \\ \hline 1 7 \end{array}$$

Quotient = 455

Remainder = 17

f)

$$\begin{array}{r} 1 0 5 \\ 3 2 \overline{) 3 3 6 0} \\ - 3 2 \\ \hline 1 6 0 \\ - 1 6 0 \\ \hline 0 \end{array}$$

Quotient = 105

Remainder = 0

g)

$$\begin{array}{r} 2 1 \\ 4 8 \overline{) 1 0 2 7} \end{array}$$

$$\begin{array}{r} - 9 6 \\ \hline 6 7 \\ - 4 8 \\ \hline 1 9 \end{array}$$

Quotient = 21

Remainder = 19

h)

$$\begin{array}{r} 2 4 \\ 6 3 \overline{) 1 5 2 4} \\ - 1 2 6 \\ \hline 2 6 4 \\ - 2 5 2 \\ \hline 1 2 \end{array}$$

Quotient = 24

Remainder = 12

**2. Solve the following.**

a)

$$\begin{array}{r} 1 0 \\ 4 2 \overline{) 4 5 2} \\ - 4 2 \\ \hline 3 2 \end{array}$$

b)

$$\begin{array}{r} 2 0 0 \\ 2 5 \overline{) 5 0 0 0} \\ - 5 0 \\ \hline 0 0 0 \end{array}$$

c)

$$\begin{array}{r}
 75 \\
 24 \overline{)1800} \\
 -168 \\
 \hline
 120 \\
 -120 \\
 \hline
 0
 \end{array}$$

d)

$$\begin{array}{r}
 56 \\
 2 \overline{)1792} \\
 -14 \\
 \hline
 39 \\
 -35 \\
 \hline
 42 \\
 -42 \\
 \hline
 0
 \end{array}$$

e)

$$\begin{array}{r}
 19 \\
 4 \overline{)76} \\
 -4 \\
 \hline
 36 \\
 -36 \\
 \hline
 0
 \end{array}$$

The price of 15 kg sugar  
is:

f)

19
× 15
285

124
× 25
3100

$$\begin{array}{r}
 63 \\
 25 \overline{)1575} \\
 -150 \\
 \hline
 75 \\
 -75 \\
 \hline
 0
 \end{array}$$

g)

$$\begin{array}{r}
 240 \\
 25 \overline{)6000} \\
 -50 \\
 \hline
 100 \\
 -100 \\
 \hline
 00
 \end{array}$$

## Exercise 1H

1. Observe the given pattern and write next two numbers

- a) 31, 35
- b) 600, 550
- c) 480, 460
- d) 118, 121
- e) 88, 86
- f) 860, 850

## Unit 02

## Exercise 2A

**1. Circle the prime numbers**

1 , 11 , 29 , 47 , 57 , 67 , 83

**2. Circle the composite numbers**

8 , 18 , 35 , 36 , 49 , 66 , 69

**3. Write the factors**

- a) 1 , 5 , 25 (composite)
- b) 1 , 11 (prime)
- c) 1 , 2 (prime)
- d) 1 , 2 , 3 , 5 , 6 , 10 , 15 ,  
30 ( composite)
- e) 1 , 2 , 3 , 4 , 6 , 8 , 12 , 16  
, 24 , 48 (composite)
- f) 1 , 17 ( prime)
- g) 1 , 3 , 11 (composite)

**4. Circle the composite number**

36 , 21 , 28 , 44

**5. Circle the correct option**

- a) Prime number because it has only one factor
- b) Composite number because it has more than two factors
- c) Composite number because it has more than two factors

**Exercise 2B****1. Find the factors of given numbers**

- a) 1 , 2 , 3 , 6 , 9 , 18

- b) 1 , 6 , 2 , 3

- c) 1 , 14 , 2 , 7

- d) 1 , 12 , 2 , 6 , 3 , 4

**2. Write all the factors of each pair.**

- a) The 6 factors of 45 are:

1, 3, 5, 9, 15, 45

- b) The 4 factors of 15 are:

1, 3, 5, 15

- c) The 4 factors of 34 are:

1, 2, 17, 34

**3. Find the factors of numbers from 21 to 50.**

<b>numbers</b>	<b>Factors</b>
21	1, 3, 7 , 21
25	1 , 5 , 25
27	1 , 3 , 9 , 27
31	1 , 31
34	1 , 2 , 17 , 34
36	1 , 2 , 3 , 4 , 6 , 9
38	1 , 2 , 38
41	1 , 41
44	1 , 2 , 4 , 11 , 22
50	1 , 2 , 5 , 10 , 25

**Exercise 2C**

**1. Write the missing number in each set of multiple**

- a) 3 , 6 , 9 , 12 , 15 , 18 , 21 , 24 , 27 , 30
- b) 4 , 8 , 12 , 16 , 20 , 24 , 28 , 36
- c) 5 , 10 , 15 , 20 , 25 , 30 , 35 , 40 , 45
- d) 6 , 12 , 18 , 24 , 30 , 36 , 42 , 48 , 54
- e) 7 , 14 , 21 , 28 , 35 , 42 , 49 , 56 , 63
- f) 8 , 16 , 24 , 32 , 40 , 48 , 56 , 64 , 72
- g) 9 , 18 , 27 , 36 , 45 , 54 , 63 , 72 , 81

**2. Write the missing number**

- a) 20 , 15 , 40 , 25
- b) 24 , 15 , 30 , 9

**3. Who am I?**

- a) Seventh multiple of number 2=  
 $2 \times 7 = 14$
- b) Ninth multiple of nine= $9 \times 9 = 81$
- c) Eight multiple of number 7=  
 $8 \times 7 = 56$
- d) Tenth multiple of number 4=  
 $10 \times 4 = 40$
- e) Fifth multiple of number 5= $5 \times 5 = 25$
- f) Tenth multiple of number 4=  
 $10 \times 4 = 40$

**4. Tick the true statement and cross the false statement**

- a) true
- b) true
- c) false
- d) false
- e) true
- f) false
- g) false

**Differentiate between factors and multiples**

- a) Numbers that's are factors of 30  
5 , 2 , 10 , 6 , 3
- b) Numbers that are multiples of 7  
14 , 21 , 49 , 63

**Exercise 2D**

**4. Tick the correct option**

- a) Yes , no
- b) No , no
- c) Yes , yes
- d) No , no
- e) No , yes
- f) Yes , no
- g) Yes , yes

**5. Do as directed**

- a) 8 , 10 , 12 , 14 , 16 , 18
- b) 18 , 24 , 30 , 36 , 42 , 48
- c) 10
- d) 2 , 3
- e) 24 , 28 , 32 , 36
- f) 1 , 2 , 3 , 4 , 6 , 12
- g) 4 , 12

**Exercise 2E**

**1. Write the prime factors of the numbers**

- a)  $20 = 5 \times 2 \times 2$
- b)  $28 = 2 \times 2 \times 7$
- c)  $30 = 2 \times 3 \times 5$

- d)**  $81 = 3 \times 3 \times 3 \times 3$   
**e)**  $56 = 2 \times 2 \times 2 \times 7$   
**f)**  $72 = 2 \times 2 \times 2 \times 3 \times 3$

**2. Using factor method , determine the prime factors of:**

- a)**  $70 = 2 \times 5 \times 7$   
**b)** 11 is a prime number  
**c)**  $99 = 3 \times 3 \times 11$   
**d)**  $44 = 2 \times 2 \times 11$   
**e)**  $62 = 2 \times 2 \times 11$   
**f)**  $76 = 2 \times 2 \times 19$   
**g)**  $63 = 3 \times 3 \times 7$   
**h)**  $36 = 2 \times 2 \times 3 \times 3$   
**i)**  $48 = 2 \times 2 \times 2 \times 2 \times 3$   
**j)**  $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$   
**k)**  $84 = 2 \times 2 \times 3 \times 7$   
**l)**  $77 = 2 \times 2 \times 3 \times 7$   
**m)**  $46 = 2 \times 23$   
**n)**  $80 = 2 \times 2 \times 2 \times 2 \times 5$   
**o)**  $68 = 2 \times 2 \times 17$   
**p)**  $54 = 2 \times 3 \times 3 \times 3$   
**q)**  $96 = 2 \times 2 \times 2 \times 2 \times 2 \times 3$   
**r)** 2 is a prime number.  
**s)**  $55 = 5 \times 11$   
**t)**  $42 = 5 \times 11$

**3. Following are the prime factorization of certain numbers.**  
**Calculate the number.**

- a)**  $3 \times 5 \times 11 = 165$   
**b)**  $2 \times 5 \times 7 = 70$   
**c)**  $2 \times 3 \times 13 = 78$   
**d)**  $2 \times 3 \times 3 \times 7 = 126$   
**e)**  $3 \times 5 \times 5 = 75$   
**f)**  $2 \times 3 \times 7 = 42$   
**g)**  $3 \times 3 \times 3 \times 3 = 81$   
**h)**  $3 \times 2 \times 2 \times 5 = 60$   
**i)**  $2 \times 2 \times 2 \times 2 \times 2 = 32$   
**j)**  $2 \times 2 \times 3 \times 3 = 36$

## Exercise 2F

**1. Find the common factor**

- a)** The factors of 18 are:  
 1, 2, 3, 6, 9, 18

The factors of 24 are:  
 1, 2, 3, 4, 6, 8, 12, 24

The common factors are:  
 1, 2, 3, 6

- b)** The factors of 6 are:  
 1, 2, 3, 6

The factors of 8 are:  
 1, 2, 4, 8

The common factors are:  
 1, 2

- c)** The factors of 25 are:  
 1, 5, 25

The factors of 45 are:  
 1, 3, 5, 9, 15, 45

The common factors are:  
 1, 5

- d)** The factors of 16 are:  
 1, 2, 4, 8, 16

The factors of 20 are:  
 1, 2, 4, 5, 10, 20

The common factors are:  
 1, 2, 4

- e)** The factors of 36 are:  
 1, 2, 3, 4, 6, 9, 12, 18, 36

The factors of 54 are:  
 1, 2, 3, 6, 9, 18, 27, 54

The common factors are:  
1, 2, 3, 6, 9, 18

- f)** The factors of 27 are:  
1, 3, 9, 27

The factors of 63 are:  
1, 3, 7, 9, 21, 63

The common factors are:  
1, 3, 9

## 2. Find the common factors.

- a)** The factors of 4 are:  
1, 2, 4

The factors of 8 are:  
1, 2, 4, 8

The common factors are:  
1, 2, 4

- b)** The factors of 12 are:  
1, 2, 3, 4, 6, 12

The factors of 20 are:  
1, 2, 4, 5, 10, 20

The common factors are:  
1, 2, 4

- c)** The factors of 3 are:  
1, 3

The factors of 21 are:  
1, 3, 7, 21

The common factors are:  
1, 3

- d)** The factors of 6 are:  
1, 2, 3, 6

The factors of 24 are:  
1, 2, 3, 4, 6, 8, 12, 24

The common factors are:  
1, 2, 3, 6

## 3. Find the common factors of each sets.

- a)** The factors of 4 are:  
1, 2, 4

The factors of 18 are:  
1, 2, 3, 6, 9, 18

The factors of 32 are:  
1, 2, 4, 8, 16, 32

The common factors are:  
1, 2

- b)** The factors of 5 are:  
1, 5

The factors of 15 are:  
1, 3, 5, 15

The factors of 45 are:  
1, 3, 5, 9, 15, 45

The common factors are:  
1, 5

- c)** The factors of 18 are:  
1, 2, 3, 6, 9, 18

The factors of 24 are:  
1, 2, 3, 4, 6, 8, 12, 24

The factors of 48 are:  
1, 2, 3, 4, 6, 8, 12, 16, 24, 48

The common factors are:  
1, 2, 3, 6

- d)** The factors of 14 are:  
1, 2, 7, 14

The factors of 21 are:  
1, 3, 7, 21

The factors of 63 are:  
1, 3, 7, 9, 21, 63

	The common factors are: 1, 7	Factor: $\text{GCF} = 4$
e)	The factors of 6 are: 1, 2, 3, 6	c) The factors of 18 are: 1, 2, 3, 6, 9, 18
	The factors of 15 are: 1, 3, 5, 15	The factors of 24 are: 1, 2, 3, 4, 6, 8, 12, 24
	The factors of 27 are: 1, 3, 9, 27	The factors of 46 are: 1, 2, 23, 46
	The common factors are: 1, 3	The common factors are: 1, 2
4.	<b>What is the greatest common factor of the following numbers of sets.</b>	The Greatest Common Factor: $\text{GCF} = 2$
a)	The factors of 9 are: 1, 3, 9	d) The factors of 10 are: 1, 2, 5, 10
	The factors of 15 are: 1, 3, 5, 15	The factors of 15 are: 1, 3, 5, 15
	The factors of 24 are: 1, 2, 3, 4, 6, 8, 12, 24	The factors of 20 are: 1, 2, 4, 5, 10, 20
	The common factors are: 1, 3	The common factors are: 1, 5
	The Greatest Common Factor: $\text{GCF} = 3$	The Greatest Common Factor: $\text{GCF} = 5$
b)	The factors of 8 are: 1, 2, 4, 8	e) The factors of 6 are: 1, 2, 3, 6
	The factors of 16 are: 1, 2, 4, 8, 16	The factors of 18 are: 1, 2, 3, 6, 9, 18
	The factors of 20 are: 1, 2, 4, 5, 10, 20	The factors of 24 are: 1, 2, 3, 4, 6, 8, 12, 24
	The common factors are: 1, 2, 4	The common factors are: 1, 2, 3, 6
	The Greatest Common	The Greatest Common Factor: $\text{GCF} = 6$

- f)** The factors of 7 are:  
1, 7

The factors of 21 are:  
1, 3, 7, 21

The factors of 35 are:  
1, 5, 7, 35

The common factors are:  
1, 7

The Greatest Common Factor:  
GCF = 7

- g)** The factors of 12 are:  
1, 2, 3, 4, 6, 12

The factors of 20 are:  
1, 2, 4, 5, 10, 20

The factors of 24 are:  
1, 2, 3, 4, 6, 8, 12, 24

The common factors are:  
1, 2, 4

The Greatest Common Factor:  
GCF = 4

- h)** The factors of 8 are:  
1, 2, 4, 8

The factors of 10 are:  
1, 2, 5, 10

The factors of 18 are:  
1, 2, 3, 6, 9, 18

The common factors are:  
1, 2

The Greatest Common Factor:  
GCF = 2

- i)** The factors of 8 are:  
1, 2, 4, 8

The factors of 12 are:  
1, 2, 3, 4, 6, 12

The factors of 20 are:  
1, 2, 4, 5, 10, 20

The common factors are:  
1, 2, 4

The Greatest Common Factor:  
GCF = 4

## Exercise 2G

### 1. Find the first three common multiples of the following

- a)** Multiples of 4:  
4, 8, 12, 16, 20, 24, 28

Multiples of 5:  
5, 10, 15, 20, 25, 30  
20, 40, 60

- b)** Multiples of 2:  
2, 4, 6, 8

Multiples of 4:  
4, 8, 12

Therefore 4 , 8 , 12

- c)** Multiples of 2:  
2, 4, 6, 8, 10, 12, 14

Multiples of 5:  
5, 10, 15, 20  
10 , 20 , 30

- d)** Multiples of 2:  
2, 4, 6, 8, 10

Multiples of 3:

3, 6, 9, 12  
18

- e) Multiples of 3:  
3, 6, 9, 12, 15, 18

Multiples of 4:  
4, 8, 12, 16, 20  
12, 36, 48

- f) Multiples of 4:  
4, 8, 12, 16

Multiples of 8:  
8, 16, 24  
8, 16, 24

## 2. Find.

- a) first two common multiples of 6 and 15.

Multiples of 6:  
6, 12, 18, 24, 30, 36, 42

Multiples of 15:  
15, 30, 45, 60  
30, 60

- b) First three mutliples of 4 and 10

Multiples of 4:  
4, 8, 12, 16, 20, 24, 28

Multiples of 10:  
10, 20, 30, 40  
20, 40, 60

- c) First two common multiples of 12 and 18.

Multiples of 12:  
12, 24, 36, 48, 60

Multiples of 18:  
18, 36, 54, 72  
36, 72

- d) First five common multiples of 2,4 and 6.

Multiples of 2:  
2, 4, 6, 8, 10, 12, 14, 16

Multiples of 4:  
4, 8, 12, 16, 20

Multiples of 6:  
6, 12, 18, 24

12, 24, 60, 108, 120

## 3. Find the smallest common multiple of three numbers.

- a) Multiples of 2:  
2, 4, 6, 8, 10, 12, 14, 16

Multiples of 3:  
3, 6, 9, 12, 15, 18

Multiples of 4:  
4, 8, 12, 16, 20

Therefore,

$$\text{LCM}(2, 3, 4) = 12$$

- b) Multiples of 3:  
3, 6, 9, 12, 15, 18, 21, 24, 27,  
30, 33, 36, 39, 42, 45, 48, 51,  
54, 57, 60, 63, 66, 69, 72, 75,  
78, 81, 84, 87, 90, 93, 96, 99,  
102, 105, 108, 111

Multiples of 5:  
5, 10, 15, 20, 25, 30, 35, 40,  
45, 50, 55, 60, 65, 70, 75, 80,  
85, 90, 95, 100, 105, 110,  
115

Multiples of 7:  
7, 14, 21, 28, 35, 42, 49, 56,  
63, 70, 77, 84, 91, 98, 105,  
112, 119

Therefore,

- $\text{LCM}(3, 5, 7) = 105$
- c) Multiples of 2:  
2, 4, 6, 8, 10, 12, 14, 16
- Multiples of 4:  
4, 8, 12, 16, 20
- Multiples of 6:  
6, 12, 18, 24
- Therefore,
- $\text{LCM}(2, 4, 6) = 12$
- d) Multiples of 3:  
3, 6, 9, 12, 15, 18, 21, 24, 27, 30
- Multiples of 4:  
4, 8, 12, 16, 20, 24, 28, 32
- Multiples of 8:  
8, 16, 24, 32, 40
- Therefore,
- $\text{LCM}(3, 4, 8) = 24$
- e) Multiples of 3:  
3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69
- Multiples of 7:  
7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77
- Multiples of 9:  
9, 18, 27, 36, 45, 54, 63, 72, 81
- Therefore,
- $\text{LCM}(3, 7, 9) = 63$
- f) Multiples of 4:  
4, 8, 12, 16, 20, 24, 28, 32

Multiples of 6:  
6, 12, 18, 24, 30, 36

Multiples of 8:  
8, 16, 24, 32, 40

Therefore,

$$\text{LCM}(4, 6, 8) = 24$$

#### 4. Fill in the blanks

- a) 12 and 8
- b) 3 and 4
- c) 4 and 7
- d) 8 and 7
- e) 5 and 6

#### 5. List out first two common multiples of the followings.

- a) Multiples of 3:  
3, 6, 9, 12, 15, 18

Multiples of 4:  
4, 8, 12, 16, 20  
12, 24

- b) Multiples of 6:  
6, 12, 18, 24, 30, 36

Multiples of 8:  
8, 16, 24, 32, 40  
24, 48

#### 6. Find the least common multiple

- a) Multiples of 3:  
3, 6, 9, 12, 15, 18, 21, 24, 27, 30

Multiples of 8:  
8, 16, 24, 32, 40

Therefore,

$$\text{LCM}(3, 8) = 24$$

- b) Multiples of 7:  
7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77

Multiples of 9:  
9, 18, 27, 36, 45, 54, 63, 72,  
81

Therefore,

$$\text{LCM}(7, 9) = 63$$

## Unit 3

### Exercise 3A

- 1. Write whether following fractions are like or unlike.**

- a) like
- b) unlike
- c) like
- d) unlike
- e) unlike
- f) like
- g) unlike
- h) like
- i) unlike
- j) unlike
- k) like
- l) like
- m) unlike
- n) like
- o) unlike

- 2. Identify the set of unlike fractions.**

$$\frac{4}{7}, \frac{7}{9}, \frac{3}{8}$$

- 3. Which of the following pairs are like fractions.**

$$\frac{2}{7}, \frac{3}{7}$$

### Exercise 3B

- 1. Compare the fractions**

- a) <
- b) =
- c) >
- d) <
- e) <
- f) <
- g) <
- h) <
- i) <
- j) >
- k) <
- l) =

### Exercise 3C

- 1. Simplify the fractions**

- a)  $\frac{1}{2}$
- b)  $\frac{2}{8} = \frac{2^1}{8_4} = \frac{1}{4}$
- c)  $\frac{12}{36} = \frac{12^1}{36_3} = \frac{1}{3}$
- d)  $\frac{4}{20} = \frac{4^1}{20_5} = \frac{1}{5}$
- e)  $\frac{3}{12} = \frac{3^1}{12_4} = \frac{1}{4}$
- f)  $\frac{2}{6} = \frac{2^1}{6_3} = \frac{1}{3}$
- g)  $\frac{5}{20} = \frac{5^1}{20_4} = \frac{1}{4}$
- h)  $\frac{18}{30} = \frac{18^6}{30_{10}} = \frac{6^3}{10_5} = \frac{3}{5}$

i)  $\frac{10}{20} = \frac{10^1}{20_2} = \frac{1}{2}$

j)  $\frac{12}{24} = \frac{12^1}{24_2} = \frac{1}{2}$

k)  $\frac{20}{30} = \frac{20^2}{30_3} = \frac{2}{3}$

l)  $\frac{18}{36} = \frac{18^1}{36_2} = \frac{1}{2}$

m)  $\frac{15}{20} = \frac{15^3}{20_4} = \frac{3}{4}$

n)  $\frac{4}{32} = \frac{4^1}{32_8} = \frac{1}{8}$

o)  $\frac{3}{6} = \frac{3^1}{6_2} = \frac{1}{2}$

p)  $\frac{6}{36} = \frac{6^1}{36_6} = \frac{1}{6}$

2. Zaki has 20 apples. He ate 8 apples.

$$\frac{20}{8} = \frac{20^{10}}{8_4} = \frac{10^5}{4_2} = \frac{5}{2}$$

## Exercise 3D

1. Identify the fraction

- a) Unit fraction
- b) Improper fraction
- c) Mixed fraction
- d) Proper fraction
- e) Improper fraction
- f) Unit fraction
- g) Mixed fraction
- h) Improper fraction
- i) Mixed fraction
- j) Unit fraction
- k) Mixed fraction

l) Improper fraction

## Exercise 3E

1. Convert the following improper fraction to mixed numbers.

a) 
$$\begin{array}{r} 2 \\ 4 \overline{) 9} \\ \underline{-8} \\ 1 \end{array}, \quad 2\frac{1}{4}$$

b) 
$$\begin{array}{r} 2 \\ 5 \overline{) 11} \\ \underline{-10} \\ 1 \end{array}, \quad 2\frac{1}{5}$$

c) 
$$\begin{array}{r} 7 \\ 10 \overline{) 71} \\ \underline{-70} \\ 1 \end{array}, \quad 7\frac{1}{10}$$

d) 
$$\begin{array}{r} 9 \\ 9 \overline{) 82} \\ \underline{-81} \\ 1 \end{array}, \quad 9\frac{1}{9}$$

e) 
$$\begin{array}{r} 10 \\ 6 \overline{) 61} \\ \underline{-60} \\ 1 \end{array}, \quad 10\frac{1}{6}$$

f) 
$$\begin{array}{r} 4 \\ 7 \overline{) 29} \\ \underline{-28} \\ 1 \end{array}, \quad 4\frac{1}{7}$$

**g)**  $\frac{6}{5} = 1\frac{1}{5}$

$$\begin{array}{r} 6 \\ 5 \overline{)31} \\ \underline{30} \\ 1 \end{array}$$

**h)**  $2\frac{1}{3}$

$$\begin{array}{r} 2 \\ 3 \overline{)7} \\ \underline{6} \\ 1 \end{array}$$

**i)**  $9\frac{1}{6}$

$$\begin{array}{r} 9 \\ 6 \overline{)55} \\ \underline{54} \\ 1 \end{array}$$

**j)**  $4\frac{1}{3}$

$$\begin{array}{r} 4 \\ 3 \overline{)13} \\ \underline{12} \\ 1 \end{array}$$

**k)**  $7\frac{1}{7}$

$$\begin{array}{r} 7 \\ 7 \overline{)50} \\ \underline{49} \\ 1 \end{array}$$

**l)**  $2\frac{1}{10}$

$$\begin{array}{r} 2 \\ 10 \overline{)21} \\ \underline{20} \\ 1 \end{array}$$

## 2. Convert mixed fractions into improper fractions.

**a)**  $3\frac{1}{3} = \frac{(3 \times 3) + 1}{3} = \frac{9 + 1}{3} = \frac{10}{3}$

**b)**  $2\frac{5}{8} = \frac{(2 \times 8) + 5}{8} = \frac{16 + 5}{8} = \frac{21}{8}$

**c)**  $2\frac{2}{4} = \frac{(2 \times 4) + 2}{4} = \frac{8 + 2}{4} = \frac{10}{4} = \frac{5}{2}$

**d)**  $1\frac{3}{6} = \frac{(1 \times 6) + 3}{6} = \frac{6 + 3}{6} = \frac{9}{6} = \frac{3}{2}$

**e)**  $2\frac{4}{5} = \frac{(2 \times 5) + 4}{5} = \frac{10 + 4}{5} = \frac{14}{5}$

**f)**  $1\frac{1}{6} = \frac{(1 \times 6) + 1}{6} = \frac{6 + 1}{6} = \frac{7}{6}$

**g)**  $2\frac{1}{2} = \frac{(2 \times 2) + 1}{2} = \frac{4 + 1}{2} = \frac{5}{2}$

**h)**  $1\frac{3}{4} = \frac{(1 \times 4) + 3}{4} = \frac{4 + 3}{4} = \frac{7}{4}$

**3.**  $1\frac{2}{3} = \frac{(1 \times 3) + 2}{3} = \frac{3 + 2}{3} = \frac{5}{3}$

**4.**  $2\frac{3}{3}$

$$\begin{array}{r} 2 \\ 3 \overline{)9} \\ \underline{6} \\ 3 \end{array}$$

**5.** Write the given fraction in ascending and descending order.

**a)** Ascending ( $\frac{1}{3}, \frac{2}{3}, \frac{4}{3}$ )

Descending ( $\frac{4}{3}, \frac{2}{3}, \frac{1}{3}$ )

**b)** Ascending ( $\frac{3}{9}, \frac{2}{5}, \frac{4}{7}$ )

Descending ( $\frac{4}{7}, \frac{2}{5}, \frac{3}{9}$ )

**c)** Ascending ( $\frac{2}{3}, \frac{5}{6}, \frac{3}{4}$ )

Descending ( $\frac{3}{4}, \frac{5}{6}, \frac{2}{3}$ )

$$1 + \frac{1}{2} = \frac{2+1}{2} = \frac{3}{2}$$

6.  $2\overline{)3}$        $1\frac{1}{2}$

$$\begin{array}{r} 1 \\ 2 ) 3 \\ \underline{2} \\ 1 \end{array}$$

$$7. 2\frac{1}{2} = \frac{(2 \times 2) + 1}{2} = \frac{4+1}{2} = \frac{5}{2}$$

## Exercise 3F

1. Solve the given fraction.

a)  $\frac{1}{4} + \frac{5}{4} = \frac{1+5}{4} = \frac{6}{4} = \frac{3}{2}$

b)  $\frac{3}{8} + \frac{5}{8} = \frac{3+5}{8} = \frac{8}{8} = 1$

c)  $\frac{9}{10} + \frac{7}{10} = \frac{9+7}{10} = \frac{16}{10} = \frac{8}{5}$

d)  $\frac{3}{9} + \frac{8}{9} = \frac{3+8}{9} = \frac{11}{9}$

e)  $\frac{3}{5} + \frac{1}{5} = \frac{3+1}{5} = \frac{4}{5}$

f)  $\frac{1}{6} + \frac{4}{6} = \frac{1+4}{6} = \frac{5}{6}$

g)  $\frac{6}{11} + \frac{3}{11} = \frac{6+3}{11} = \frac{9}{11}$

h)  $\frac{3}{10} + \frac{7}{10} = \frac{3+7}{10} = \frac{10}{10} = 1$

i)  $\frac{6}{25} + \frac{11}{25} = \frac{6+11}{25} = \frac{17}{25}$

j)  $\frac{11}{20} + \frac{3}{20} = \frac{11+3}{20} = \frac{14}{20} = \frac{14}{20} = \frac{7}{10}$

k)  $\frac{4}{15} + \frac{4}{15} = \frac{4+4}{15} = \frac{8}{15}$

l)  $\frac{5}{13} + \frac{6}{13} = \frac{5+6}{13} = \frac{11}{13}$

2. Add up the fractions.

a)  $\frac{3}{10} + \frac{1}{10} = \frac{3+1}{10} = \frac{4}{10} = \frac{2}{5}$

b)  $\frac{5}{12} + \frac{7}{12} = \frac{5+7}{12} = \frac{12}{12} = 1$

c)  $\frac{3}{10} + \frac{3}{10} = \frac{3+3}{10} = \frac{6}{10} = \frac{3}{5}$

d)  $\frac{8}{15} + \frac{4}{15} = \frac{8+4}{15} = \frac{12}{15} = \frac{4}{5}$

e)  $\frac{4}{13} + \frac{8}{13} = \frac{4+8}{13} = \frac{12}{13}$

f)  $\frac{13}{21} + \frac{8}{21} = \frac{13+8}{21} = \frac{21}{21} = 1$

**g)**  $\frac{11}{30} + \frac{17}{30} = \frac{11+17}{30} = \frac{28^{14}}{30_{15}} = \frac{14}{15}$

**h)**  $\frac{23}{40} + \frac{11}{40} = \frac{23+11}{40} = \frac{34^{17}}{40_{20}} = \frac{17}{20}$

## Exercise 3G

1. Subtract the given fractions.

**a)**  $\frac{9}{10} - \frac{7}{10} = \frac{9-7}{10} = \frac{3}{10}$

**b)**  $\frac{6}{8} - \frac{3}{8} = \frac{6-3}{8} = \frac{3}{8}$

**c)**  $\frac{4}{7} - \frac{2}{7} = \frac{4-2}{7} = \frac{2}{7}$

**d)**  $\frac{3}{4} - \frac{1}{4} = \frac{3-1}{4} = \frac{2^1}{4_2} = \frac{1}{2}$

**e)**  $\frac{6}{10} - \frac{5}{10} = \frac{6-5}{10} = \frac{1}{10}$

**f)**  $\frac{7}{11} - \frac{2}{11} = \frac{7-2}{11} = \frac{5}{11}$

**g)**  $\frac{10}{12} - \frac{4}{12} = \frac{10-4}{12} = \frac{6^1}{12_2} = \frac{1}{2}$

**h)**  $\frac{4}{6} - \frac{3}{6} = \frac{4-3}{6} = \frac{1}{6}$

**i)**  $\frac{8}{9} - \frac{7}{9} = \frac{8-7}{9} = \frac{1}{9}$

**j)**  $\frac{4}{5} - \frac{3}{5} = \frac{4-3}{5} = \frac{1}{5}$

**k)**  $\frac{7}{8} - \frac{6}{8} = \frac{7-6}{8} = \frac{1}{8}$

**l)**  $\frac{2}{3} - \frac{1}{3} = \frac{2-1}{3} = \frac{1}{3}$

**m)**  $\frac{4}{10} - \frac{3}{10} = \frac{4-3}{10} = \frac{1}{10}$

**n)**  $\frac{8}{12} - \frac{5}{12} = \frac{8-5}{12} = \frac{3^1}{12_4} = \frac{1}{4}$

**o)**  $\frac{5}{6} - \frac{2}{6} = \frac{5-2}{6} = \frac{3^1}{6_2} = \frac{1}{2}$

**p)**  $\frac{9}{11} - \frac{2}{11} = \frac{9-2}{11} = \frac{7}{11}$

**2.**  $\frac{9}{11} - \frac{6}{11} = \frac{9-6}{11} = \frac{3}{11}$

Sheraz's share is more than Ali's by  $\frac{3}{11}$ .

## Exercise 3H

1.  $\frac{2}{7} + \frac{3}{7} = \frac{2+3}{7} = \frac{5}{7}$

2.  $\frac{3}{14} + \frac{5}{14} = \frac{3+5}{14} = \frac{8}{14}$

3.  $\frac{3}{13} + \frac{5}{13} = \frac{3+5}{13} = \frac{8}{13}$

4.  $\frac{2}{10} + \frac{1}{10} = \frac{2+1}{10} = \frac{3}{10}$

5.  $\frac{7}{14} - \frac{2}{14} = \frac{7-2}{14} = \frac{5}{14}$ , doing more work on Tuesday.

6.  $\frac{6}{10} - \frac{3}{10} = \frac{6-3}{10} = \frac{3}{10}$ , more walk on Tuesday.

7.  $\frac{3}{9} - \frac{2}{9} = \frac{3-2}{9} = \frac{1}{9}$ , kamal distributed more packets.

$$\frac{4}{8} = \frac{4^1}{8_2} = \frac{1}{2}$$

8.  $\frac{3}{9} = \frac{3^1}{9_3} = \frac{1}{3}$

$$\frac{1}{2} - \frac{1}{3} = \frac{3-2}{6} = \frac{1}{6}$$

## Exercise 3I

1. Use repeated addition to find the solution.

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

b)  $8 \times \frac{1}{7} = \frac{1}{7} + \frac{1}{7}$   
 $\frac{1+1+1+1+1+1+1+1}{7} = \frac{8}{7}$

c)  $3 \times \frac{3}{5} = \frac{3}{5} + \frac{3}{5} + \frac{3}{5}$   
 $\frac{3+3+3}{5} = \frac{9}{5}$

d)  $5 \times \frac{7}{8} = \frac{7}{8} + \frac{7}{8} + \frac{7}{8} + \frac{7}{8} + \frac{7}{8}$   
 $\frac{7+7+7+7+7}{8} = \frac{35}{8}$

2. Multiply

a)  $4 \times \frac{2}{5} = \frac{8}{5}$

b)  $3 \times \frac{7}{11} = \frac{21}{11}$

c)  $5 \times \frac{8}{9} = \frac{40}{9}$

d)  $10 \times \frac{2}{9} = \frac{20}{9}$

e)  $7 \times \frac{9}{21} = \frac{63^3}{2I_1} = 3$

f)  $15 \times \frac{7}{12} = \frac{10\mathfrak{s}^{35}}{12_4} = \frac{35}{4}$

g)  $21 \times \frac{5}{6} = \frac{10\mathfrak{s}^{35}}{\mathfrak{6}_2} = \frac{35}{2}$

h)  $25 \times \frac{7}{15} = \frac{17\mathfrak{s}^{35}}{1\mathfrak{s}_3} = \frac{35}{3}$

i)  $35 \times \frac{2}{7} = \frac{70^{10}}{7_1} = 10$

j)  $21 \times \frac{6}{7} = \frac{12\mathfrak{6}^{18}}{7_1} = 18$

k)  $10 \times \frac{8}{15} = \frac{80^{16}}{1\mathfrak{s}_3} = \frac{16}{3}$

l)  $26 \times \frac{7}{13} = \frac{182^{14}}{1\mathfrak{3}_1} = 14$

### 3. Multiply

a)  $\frac{2}{5} \times \frac{3}{7} = \frac{2 \times 3}{5 \times 7} = \frac{6}{35}$

b)  $\frac{1}{6} \times \frac{1}{5} = \frac{1 \times 1}{6 \times 5} = \frac{1}{30}$

c)  $\frac{2}{7} \times \frac{5}{6} = \frac{2 \times 5}{7 \times 6} = \frac{10^5}{42_{21}} = \frac{5}{21}$

d)  $\frac{7}{1} \times \frac{3}{4} = \frac{7 \times 3}{1 \times 4} = \frac{21}{4}$

e)  $\frac{4}{11} \times \frac{5}{9} = \frac{4 \times 5}{11 \times 9} = \frac{20}{99}$

f)  $\frac{1}{4} \times \frac{3}{7} \times \frac{9}{10} = \frac{1 \times 3 \times 9}{4 \times 7 \times 10} = \frac{27}{280}$

g)  $\frac{1}{5} \times \frac{1}{2} \times \frac{3}{7} = \frac{1 \times 1 \times 3}{5 \times 2 \times 7} = \frac{3}{70}$

h)  $\frac{2}{3} \times \frac{4}{9} \times \frac{5}{7} = \frac{2 \times 4 \times 5}{3 \times 9 \times 7} = \frac{40}{189}$

### 4. Find the product

a)  $\frac{2}{7} \times \frac{3}{6} = \frac{(2 \times 7) + 3}{7} \times \frac{5}{6} = \frac{14 + 3}{7} \times \frac{5}{6}$   
 $\frac{17}{7} \times \frac{5}{6} = \frac{17 \times 5}{7 \times 6} = \frac{85}{42}$

b)  $\frac{4}{5} \times \frac{15}{16} = \frac{(4 \times 5) + 4}{5} \times \frac{15}{16} = \frac{20 + 4}{5} \times \frac{15}{16}$   
 $\frac{24^3}{5_1} \times \frac{15^3}{16_2} = \frac{3 \times 3}{2} = \frac{9}{2}$

c)  $\frac{3}{9} \times \frac{7}{35} = \frac{(3 \times 9) + 7}{9} \times \frac{(1 \times 35) + 21}{35} = \frac{27 + 7}{9} \times \frac{35 + 21}{35}$   
 $\frac{34}{9} \times \frac{56}{35} = \frac{34 \times 56}{9 \times 35} = \frac{1904}{315}$

d)  $\frac{2}{8} \times \frac{5}{9} = \frac{(2 \times 8) + 5}{8} \times \frac{(2 \times 9) + 4}{9} = \frac{16 + 5}{8} \times \frac{18 + 4}{9}$   
 $\frac{2I^7}{8_4} \times \frac{22^{11}}{9_3} = \frac{7 \times 11}{4 \times 3} = \frac{77}{12}$

<p><b>e)</b> <math>1\frac{7}{15} \times 2\frac{10}{11} = \frac{(1 \times 15) + 7}{15} \times \frac{(2 \times 11) + 10}{11} = \frac{15 + 7}{15} \times \frac{22 + 10}{11}</math></p> $\frac{22^2}{15} \times \frac{32}{11} = \frac{2 \times 32}{15 \times 1} = \frac{64}{15}$ <p><b>Exercise 3J</b></p> <p><b>1. Solve the following.</b></p> <p><b>a)</b> <math>\frac{6}{20} \div 2 = \frac{6^3}{20} \times \frac{1}{2} = \frac{3}{20}</math></p> <p><b>b)</b> <math>\frac{1}{10} \div 2 = \frac{1}{10} \times \frac{1}{2} = \frac{1}{20}</math></p> <p><b>c)</b> <math>\frac{10}{35} \div 9 = \frac{10}{35} \times \frac{1}{9} = \frac{10^2}{315_{63}} = \frac{2}{63}</math></p> <p><b>d)</b> <math>\frac{12}{16} \div 7 = \frac{12}{16} \times \frac{1}{7} = \frac{12}{112}</math></p> <p><b>e)</b> <math>\frac{3}{15} \div 5 = \frac{3}{15} \times \frac{1}{5} = \frac{3}{75} = \frac{1}{25}</math></p> <p><b>f)</b> <math>\frac{9}{24} \div 3 = \frac{9^3}{24} \times \frac{1}{3} = \frac{3^1}{24_8} = \frac{1}{8}</math></p> <p><b>g)</b> <math>\frac{2}{4} \div 3 = \frac{2}{4} \times \frac{1}{3} = \frac{2}{12} = \frac{1}{6}</math></p>	<p><b>h)</b> <math>\frac{1}{5} \div 8 = \frac{1}{5} \times \frac{1}{8} = \frac{1}{40}</math></p> <p><b>i)</b> <math>\frac{1}{6} \div 6 = \frac{1}{6} \times \frac{1}{6} = \frac{1}{36}</math></p> <p><b>j)</b> <math>\frac{1}{8} \div 6 = \frac{1}{8} \times \frac{1}{6} = \frac{1}{48}</math></p> <p><b>k)</b> <math>\frac{1}{8} \div 5 = \frac{1}{8} \times \frac{1}{5} = \frac{1}{40}</math></p> <p><b>l)</b> <math>\frac{2}{10} \div 9 = \frac{2^1}{10_5} \times \frac{1}{9} = \frac{1}{5 \times 9} = \frac{1}{45}</math></p> <p><b>m)</b> <math>\frac{1}{2} \div 7 = \frac{1}{2} \times \frac{1}{7} = \frac{1}{14}</math></p> <p><b>n)</b> <math>\frac{1}{4} \div 2 = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math></p> <p><b>o)</b> <math>\frac{7}{12} \div 8 = \frac{7}{12} \times \frac{1}{8} = \frac{7}{96}</math></p> <p><b>p)</b> <math>\frac{1}{5} \div 7 = \frac{1}{5} \times \frac{1}{7} = \frac{1}{35}</math></p> <p><b>q)</b> <math>\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}</math></p> <p><b>r)</b> <math>\frac{9}{10} \div 3 = \frac{9}{10} \times \frac{1}{3} = \frac{9^3}{30_{10}} = \frac{3}{10}</math></p>
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**2. Find the quotient**

a)  $1\frac{1}{8} \div 3 = \frac{9}{8} \times \frac{1}{3} = \frac{9}{24} = \frac{3}{8}$

b)  $2\frac{3}{5} \div 7 = \frac{13}{5} \times \frac{1}{7} = \frac{13}{35}$

c)  $3\frac{2}{9} \div 9 = \frac{29}{9} \times \frac{1}{9} = \frac{29}{81}$

d)  $5\frac{1}{4} \div 8 = \frac{21}{4} \times \frac{1}{8} = \frac{21}{32}$

e)  $6\frac{1}{12} \div 10 = \frac{73}{12} \times \frac{1}{10} = \frac{73}{120}$

f)  $1\frac{5}{8} \div 2 = \frac{13}{8} \times \frac{1}{2} = \frac{13}{16}$

g)  $4\frac{5}{10} \div 6 = \frac{45}{10} \times \frac{1}{6} = \frac{45^3}{60_4} = \frac{3}{4}$

h)  $2\frac{5}{6} \div 5 = \frac{17}{6} \times \frac{1}{5} = \frac{17}{30}$

i)  $2\frac{1}{4} \div 4 = \frac{9}{4} \times \frac{1}{4} = \frac{9}{16}$

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

4.  $4\frac{7}{8} \div 10 = \frac{39}{8} \times \frac{1}{10} = \frac{39}{80}$

5.  $1\frac{3}{4} \times 5 = \frac{7}{4} \times \frac{5}{1} = \frac{35}{4}$

6.  $60 - \frac{1}{2} = \frac{120 - 60}{2} = \frac{60^{30}}{2_1} = 30$

7.  $8\frac{1}{2} \div 7 = \frac{17}{2} \times \frac{1}{7} = \frac{17}{14}$

8.  $\frac{3}{8} \times 5 = \frac{15}{8} kg$

9.  $\frac{13}{14} \times 7 = \frac{91}{14} kg$

10.  $2\frac{7}{12} \div 10 = \frac{31}{12} \times \frac{1}{10} = \frac{31}{120}$

11.  $3\frac{7}{10} \div 20 = \frac{37}{10} \times \frac{1}{20} = \frac{37}{200}$

12.  $1\frac{2}{4} \times 5 = \frac{6}{4} \times 5 = \frac{30^{15}}{4_2} = \frac{15}{2}$

13.  $25\frac{1}{2} \div 5 = \frac{51}{2} \times \frac{1}{5} = \frac{51}{10}$

14.  $36\frac{1}{2} \div 18 = \frac{72^{4^2}}{2_1} \times \frac{1}{18_1} = 2$

# Unit 4

## Exercise 4A

- 1. Complete the table.**
  - a)  $4/10$ , 0.4, zero point four
  - b)  $6/10$ , 0.6, zero point six
  - c)  $8/10$ , 0.8, zero point eight
  - d)  $3/10$ , 0.3, zero point three
- 2. Write the given fractions in decimals.**
  - a) 0.12
  - b) 0.2
  - c) 4.04
  - d) 0.05
  - e) 0.85
- 3. Convert the given fractions**
  - a) 0.325
  - b) 0.007
  - c) 0.044
  - d) 0.025
  - e) 0.185
- 4. Write the value of coloured digit**
  - a) Tens
  - b) Tens
  - c) Ones
  - d) Thousands
  - e) Hundreds
  - f) Ones
- 5. Coloured the shapes given in mathematics success.**
- 6.  $\frac{72}{100} = 0.72$**
- 7.  $\frac{100}{1000} = 1.000$**

## Exercise 4B

- 1. Convert the fractions into decimals.**
  - a) 0.05
  - b) 2.3
  - c) 1.05
  - d) 0.7
  - e) 3.44
  - f) 4.5
  - g) 1.35
  - h) 2.84
  - i) 0.47
  - j) 0.06
  - k) 0.8
  - l) 0.67
  - m) 1.76
  - n) 0.2
  - o) 88.3

- 2. Identify**
  - a)  $34/100$
  - b)  $714/100$
  - c)  $3/100$
  - d)  $54/100$
  - e)  $503/100$
  - f)  $40/100$
  - g)  $379/100$
  - h)  $109/100$
  - i)  $85/100$

## Exercise 4C

- 1. Convert the following**
  - a) 0.6

b) 0.24

c) 0.2

d) 0.32

e) 0.8

f) 0.34

g) 0.68

h) 0.75

i) 0.96

j) 0.95

## 2. Convert the decimals

a)  $\frac{37}{100}$

b)  $\frac{416}{1000}$

c)  $\frac{9}{10}$

d)  $\frac{815}{1000}$

e)  $\frac{236}{100}$

## 3. Write your answer

a) Mixed fraction =  $2\frac{6}{10}$   
Improper fraction =  $\frac{26}{10}$

b) Mixed fraction =  $1\frac{3}{10}$   
Improper fraction =  $\frac{13}{10}$

c) Mixed fraction =  $03\frac{1}{10}$   
Improper fraction =  $\frac{31}{10}$

d) Mixed fraction =  $\frac{9}{10}$   
Improper fraction =  $\frac{9}{10}$

e) Mixed fraction =  $4\frac{8}{10}$   
Improper fraction =  $\frac{48}{10}$

f) Mixed fraction =  $\frac{34}{100}$   
Improper fraction =  $\frac{34}{100}$

g) Mixed fraction =  $1\frac{58}{100}$   
Improper fraction =  $\frac{158}{100}$

h) Mixed fraction =  $3\frac{1}{10}$   
Improper fraction =  $\frac{31}{10}$

i) Mixed fraction =  $4\frac{81}{100}$   
Improper fraction =  $\frac{481}{100}$

j) Mixed fraction =  $1\frac{43}{100}$   
Improper fraction =  $\frac{143}{100}$

## Exercise 4D

### 1. Identify the decimals.

	Tens	Ones	.	Tenths	Hundreds	Thousands
15.163	1	5	.	1	6	3
3.645	0	3	.	6	4	5
0.321	0	0	.	3	2	1
2.625	0	2	.	6	2	5
1.348	0	1	.	3	4	8
9.027	0	9	.	0	2	7

### 2. Write the following as decimals.

a) 0.01

b) 0.19

c) 0.053

3.  $\frac{5}{1000} = 0.005$

4.  $\frac{10}{1000} = 0.01$

5.  $\frac{75}{100} = 0.75$

6.  $\frac{100}{1000} = 0.1$

7.  $\frac{7}{10} = 0.7$

8.  $\frac{77}{100} = 0.77$

9.  $\frac{6}{100} = 0.06$

10.  $\frac{110}{1000} = 0.11$

**11.**  $\frac{42}{100} = 0.42$

**12.**  $\frac{199}{1000} = 0.199$

**13. Represents following in decimal fractions.**

- a) 0.26
- b) 0.006
- c) 0.8
- d) 0.028
- e) 0.04
- f) 1.96
- g) 0.8
- h) 0.09

**14. Convert the following decimals into fractions.**

a)  $1.9 = 1\frac{9}{10}$

b)  $1.63 = 1\frac{63}{100}$

c)  $7.98 = 7\frac{49}{50}$

d)  $21.72 = 21\frac{18}{25}$

e)  $13.13 = 13\frac{13}{100}$

f)  $0.68 = \frac{17}{25}$

g)  $5.30 = 5\frac{3}{10}$

h)  $6.43 = 6\frac{43}{100}$

**15.**  $\frac{8}{50} = 0.16$

**16.**  $\frac{8}{200} = \frac{1}{25} = 0.04$

**17.**  $45.2 = 45\frac{1}{2}$

**18.**  $\frac{3}{6} = \frac{3^1}{6_2} = \frac{1}{2} = 0.5$

## Exercise 4E

**1. Solve the following decimals values.**

a)

44.6
+33.4
<b>78</b>

b)

8.61
+10.72
<b>19.33</b>

c)

6.9
+5.4
<b>12.3</b>

d)

5.54
+4.30
<b>9.84</b>

e)

12.09
+8.48
<b>20.57</b>

f)

33.01
+11.97
<b>44.98</b>

g)

$$\begin{array}{r} 3.85 \\ +2.34 \\ \hline 6.19 \end{array}$$

h)

$$\begin{array}{r} 60.13 \\ +39.99 \\ \hline 99.46 \end{array}$$

i)

$$\begin{array}{r} 43.36 \\ +81.03 \\ \hline 124.39 \end{array}$$

j)

$$\begin{array}{r} 6.05 \\ +3.43 \\ \hline 9.48 \end{array}$$

k)

$$\begin{array}{r} 7.30 \\ +2.98 \\ \hline 10.28 \end{array}$$

l)

$$\begin{array}{r} 5.14 \\ +5.76 \\ \hline 10.9 \end{array}$$

2.

$$\begin{array}{r} 3.98 \\ +2.01 \\ \hline 5.99 \end{array}$$

3.

$$\begin{array}{r} 3.22 \\ +5.11 \\ \hline 8.33 \end{array}$$

## Exercise 4F

1. Solve the following.

a)

b)

$$\begin{array}{r} 6.3 \\ -2.1 \\ \hline 4.2 \end{array}$$

$$\begin{array}{r} 14.2 \\ -10.1 \\ \hline 4.1 \end{array}$$

c)

$$\begin{array}{r} 5.92 \\ -3.21 \\ \hline 2.71 \end{array}$$

d)

$$\begin{array}{r} 9.18 \\ -5.04 \\ \hline 4.14 \end{array}$$

e)

$$\begin{array}{r} 7.92 \\ -4.42 \\ \hline 3.5 \end{array}$$

f)

$$\begin{array}{r} 67.09 \\ -25.02 \\ \hline 42.07 \end{array}$$

g)

$$\begin{array}{r} 3.25 \\ -0.07 \\ \hline 3.18 \end{array}$$

h)

$$\begin{array}{r} 5.01 \\ -3.25 \\ \hline 1.76 \end{array}$$

i)

$$\begin{array}{r} 62.7 \\ -58.3 \\ \hline 4.4 \end{array}$$

j)

$$\begin{array}{r} 62.9 \\ -18.3 \\ \hline 44.6 \end{array}$$

k)

$$\begin{array}{r} 9.34 \\ -5.18 \end{array}$$

	<b>4.16</b>		<b>e)</b>	6.06 -1.53 <b>4.53</b>
l)	4.66 -2.01 <b>2.65</b>		f)	43.9 -12.4 <b>31.5</b>
m)	5.80 -2.95 <b>2.85</b>			
n)	8.77 -0.80 <b>7.97</b>	3.		49.2 +50.7 <b>99.9</b>
o)	5.47 -2.86 <b>2.61</b>	4.		47.6 -42.5 <b>5.1</b>
p)	8.64 -2.43 <b>6.21</b>			

## Exercise 4G

2. Solve the followings.

a)	4.31 -3.12 <b>1.19</b>	1. Solve the following.	a)	5.9 ×10 <b>59</b>
b)	7.89 -5.19 <b>2.7</b>		b)	4.9 ×100 <b>490</b>
c)	6.32 -3.10 <b>3.22</b>		c)	8.3 ×1000 <b>8300</b>
d)	9.80 -2.09 <b>7.71</b>		d)	9.2 ×10 <b>92</b>

e)

$$\begin{array}{r}
 4.8 \\
 \times 1000 \\
 \hline
 4800
 \end{array}$$

f)

$$\begin{array}{r}
 3.6 \\
 \times 100 \\
 \hline
 360
 \end{array}$$

**2. Solve the following.**

a)

$$\begin{array}{r}
 6.6 \\
 \times 8 \\
 \hline
 52.8
 \end{array}$$

b)

$$\begin{array}{r}
 7.1 \\
 \times 3 \\
 \hline
 21.3
 \end{array}$$

c)

$$\begin{array}{r}
 5.8 \\
 \times 3 \\
 \hline
 17.4
 \end{array}$$

d)

$$\begin{array}{r}
 4.2 \\
 \times 7 \\
 \hline
 1.6
 \end{array}$$

e)

$$\begin{array}{r}
 2.7 \\
 \times 5 \\
 \hline
 13.5
 \end{array}$$

f)

$$\begin{array}{r}
 9.7 \\
 \times 9 \\
 \hline
 87.3
 \end{array}$$

**3. Solve the following.**

$$\frac{1.8}{10} \times 10 = 18$$

$$\begin{array}{r}
 9 \\
 2) 18 \\
 \underline{18} \\
 0
 \end{array}$$

$$\frac{1.8}{10} \times 10 = 18$$

$$\begin{array}{r}
 6 \\
 3) 18 \\
 \underline{18} \\
 0
 \end{array}$$

$$\frac{8.4}{10} \times 10 = 84$$

$$\begin{array}{r}
 21 \\
 4) 84 \\
 \underline{84} \\
 0
 \end{array}$$

$$\frac{9.6}{10} \times 10 = 96$$

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

$$\frac{2.7}{10} \times 10 = 27$$

$$\begin{array}{r}
 9 \\
 3) 27 \\
 \underline{27} \\
 0
 \end{array}$$

$$\frac{8.8}{10} \times 10 = 88$$

$$\begin{array}{r}
 11 \\
 8) 88 \\
 \underline{88} \\
 0
 \end{array}$$

$$\frac{8.8}{10} \times 10 = 88$$

4.  $\frac{22}{4} \overline{)88}$       2.2  

$$\begin{array}{r} 88 \\ -0 \\ \hline 88 \end{array}$$

$$\frac{9.6}{10} \times 10 = 96$$

5.  $\frac{32}{3} \overline{)96}$       3.2  

$$\begin{array}{r} 96 \\ -0 \\ \hline 96 \end{array}$$

6.  $\frac{1.3}{10} \times 10 = 13$       9.1km  
 $13 \times 7 = 91$

## Unit 5

### Measurements

#### Exercise 5A

##### 1. Convert the following length in meters.

- (a)  $5\text{km} = 5 \times 1000\text{m} = 5000\text{m}$
- (b)  $9\text{km} = 9 \times 1000\text{m} = 9000\text{m}$
- (c)  $16\text{km} = 16 \times 1000\text{m} = 16000\text{m}$
- (d)  $21\text{km} = 21 \times 1000\text{m} = 21000\text{m}$
- (e)  $31\text{km} = 31 \times 1000\text{m} = 31000\text{m}$
- (f)  $40\text{km} = 40 \times 1000\text{m} = 40,000\text{m}$
- (g)  $78\text{km} = 78 \times 1000\text{m} = 78,000\text{m}$
- (h)  $99\text{km} = 99 \times 1000\text{m} = 99,000\text{m}$

##### 2. Convert the following lengths into meters.

- a)  $7\text{km} + 20\text{m} = (7 \times 1000\text{m}) + 20 = 7020\text{m}$
- b)  $12\text{km} + 60\text{m} = (12 \times 1000\text{m}) + 60 = 12060\text{m}$
- c)  $19\text{km} + 25\text{m} = (19 \times 1000\text{m}) + 25 = 19025\text{m}$
- d)  $35\text{km} + 12\text{m} = (35 \times 1000\text{m}) + 12 = 35012\text{m}$
- e)  $42\text{km} + 70\text{m} = (42 \times 1000\text{m}) + 70 = 42070\text{m}$
- f)  $98\text{km} + 99\text{m} = (98 \times 1000\text{m}) + 99 = 98099\text{m}$

##### 3. Change meter into centimeter.

- a)  $5\text{m} = 5 \times 100 = 500\text{cm}$
- b)  $70\text{m} = 70 \times 100 = 7000\text{cm}$
- c)  $12\text{m} = 12 \times 100 = 1200\text{cm}$

##### 4. Change in millimeter.

- a)  $36\text{cm} = 36 \times 10\text{mm} = 360\text{mm}$
- b)  $71\text{cm} = 71 \times 10\text{mm} = 710\text{mm}$
- c)  $18\text{cm} = 18 \times 10\text{mm} = 180\text{mm}$

##### 5. Convert these unit of lengths.

- a)  $141\text{km} = 141 \times 1000 = 141000\text{m}$
- b)  $58\text{km} + 810 = (58 \times 1000) + 810 = 58810\text{m}$
- c)  $77\text{m} = 77 \times 100\text{cm} = 7700\text{cm}$
- d)  $40\text{m} + 68\text{cm} = (40 \times 100\text{cm}) + 68\text{cm} = 4068\text{cm}$
- e)  $3.5\text{cm} = 3.5 \times 10 = 35\text{mm}$
- f)  $52\text{cm} = (52 \times 10) + 2 = 522\text{mm}$

##### 6. Complete the conversion table.

- a) 3000m
- b) 12km
- c) 37000m

- d) 56km  
e) 75000m  
f) 94km

**7. Complete the unit conversion table.**

- a) 91000m  
b) 400cm  
c) 15000m  
d) 720cm  
e) 66000m  
f) 280cm

## Exercise 5B

**1. Solve the following.**

a)

$$\begin{array}{r} 42\text{km} \\ +33\text{km} \\ \hline 75\text{km} \end{array}$$

b)

$$\begin{array}{r} 30\text{m} \\ +52\text{m} \\ \hline 82\text{m} \end{array}$$

c)

$$\begin{array}{r} 2\text{m}16\text{cm} \\ +14\text{m}10\text{cm} \\ \hline 16\text{m}26\text{cm} \end{array}$$

d)

$$\begin{array}{r} 2\text{km}122\text{m} \\ +11\text{m} \\ \hline 2\text{km}133\text{m} \end{array}$$

e)

$$\begin{array}{r} 70\text{cm}1\text{mm} \\ +11\text{cm}8\text{mm} \\ \hline 81\text{cm}9\text{mm} \end{array}$$

f)

$$\begin{array}{r} 49\text{m} \\ +22\text{m} \\ \hline \end{array}$$

g) 71m

h) 99km  
-54km  
45km

i) 20m14cm  
-20m10cm  
4cm

j) 30cm9mm  
-20cm2mm  
10cm7mm

k) 8km 300m  
+900m  
8km 1200m

l) 2km 14cm  
-20m 10cm  
18m 4cm

m) 2m 12cm  
-98cm  
2m 86cm

**2. Solve the following.**

a)

99km  
-84km  
15km

b)

49m  
+22m  
71m

c)

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;">20m 14cm</td></tr> <tr><td style="padding: 5px;">-20m 10cm</td></tr> <tr><td style="padding: 5px;"><b>4cm</b></td></tr> </table>	20m 14cm	-20m 10cm	<b>4cm</b>
20m 14cm				
-20m 10cm				
<b>4cm</b>				
<b>d)</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;">84km 121m</td></tr> <tr><td style="padding: 5px;">-10m</td></tr> <tr><td style="padding: 5px;"><b>84km 111m</b></td></tr> </table>	84km 121m	-10m	<b>84km 111m</b>
84km 121m				
-10m				
<b>84km 111m</b>				
<b>e)</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;">30cm 9mm</td></tr> <tr><td style="padding: 5px;">-20cm 2mm</td></tr> <tr><td style="padding: 5px;"><b>10cm 7mm</b></td></tr> </table>	30cm 9mm	-20cm 2mm	<b>10cm 7mm</b>
30cm 9mm				
-20cm 2mm				
<b>10cm 7mm</b>				
<b>3.</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;">3km 10m</td></tr> <tr><td style="padding: 5px;">-1km 21m</td></tr> <tr><td style="padding: 5px;"><b>2km 11m</b></td></tr> </table>	3km 10m	-1km 21m	<b>2km 11m</b>
3km 10m				
-1km 21m				
<b>2km 11m</b>				
<b>4.</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;">48m 10cm</td></tr> <tr><td style="padding: 5px;">+62m 10cm</td></tr> <tr><td style="padding: 5px;"><b>110m 20cm</b></td></tr> </table>	48m 10cm	+62m 10cm	<b>110m 20cm</b>
48m 10cm				
+62m 10cm				
<b>110m 20cm</b>				
<b>5.</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;">4m 56cm</td></tr> <tr><td style="padding: 5px;">+5m 42cm</td></tr> <tr><td style="padding: 5px;"><b>9m 98cm</b></td></tr> </table>	4m 56cm	+5m 42cm	<b>9m 98cm</b>
4m 56cm				
+5m 42cm				
<b>9m 98cm</b>				

## Exercise 5C

### 1. Convert the following into gram.

- a)  $2kg = 2 \times 1000g = 2000g$
- b)  $13kg = 13 \times 1000g = 13000g$
- c)  $51kg = 51 \times 1000g = 51000g$
- d)  $72kg = 72 \times 1000g = 72000g$
- e)  $95kg = 95 \times 1000g = 95000g$
- f)  $36kg = 36 \times 1000g = 36000g$

- g)  $1kg + 700g = (1 \times 1000g) + 700 = 1700g$
- h)  $12kg + 200g = (12 \times 1000g) + 200 = 12,200g$
- i)  $23kg + 200g = (23 \times 1000g) + 200 = 23,200g$
- j)  $85kg + 600g = (85 \times 1000g) + 600 = 85,600g$
- k)  $93kg + 50g = (93 \times 1000g) + 50 = 93,050g$
- l)  $75kg + 175g = (75 \times 1000g) + 175 = 75,175g$

### 2. To complete 1kg, how many more grams were added.

- a)  $1kg = 1000g$   
 $1000g - 500g = 500g$
- b)  $1kg = 1000g$   
 $1000g - 250g = 750g$
- c)  $1kg = 1000g$   
 $1000g - 200g = 800g$
- d)  $1kg = 1000g$   
 $1000g - 100g = 900g$

- e)  $1kg = 1000g$   
 $1000g - 600g = 400g$
- f)  $1kg = 1000g$   
 $1000g - 450g = 550g$

### 3. Which is lighter?

- a) 1kg 700g
- b) 2kg 50 g
- c) 3kg 200g

d) 3kg 40g

4. How much more is needed to make it 2kg.

$$1kg = 1000g$$

a) 2kg = 2000g

$$2000g - 1kg 400g = 600g$$

$$1kg = 1000g$$

b) 2kg = 2000g

$$2000g - 1kg 100g = 900g$$

$$1kg = 1000g$$

c) 2kg = 2000g

$$2000g - 600g = 1kg 400g$$

$$1kg = 1000g$$

d) 2kg = 2000g

$$2000g - 400g = 1kg 600g$$

5. Solve the followings.

98kg
-23kg
<b>75kg</b>

a)

30g 52mg
-25g 119mg
<b>5g 67mg</b>

b)

c)

d)

84g
-25g
<b>59g</b>

50kg 40g
-20kg 40g
<b>30kg</b>

e)

46kg 30g
+68kg 12g
<b>114kg 42g</b>

f)

31kg 42g
+42kg 20g
<b>73kg 62g</b>

g)

3.6kg
+4.2kg
<b>7.8kg</b>

h)

9.2g
+2.3g
<b>11.5g</b>

6.

4.3kg
+5.1kg
<b>9.4kg</b>

7.

72kg 38g
-68kg 29g
<b>4kg 9g</b>

8.

9kg 14g
-7kg 9g
<b>2kg 5g</b>

9.

40kg 31g
+39kg 13g
<b>79kg 44g</b>

10.

7.9kg
-3.5kg
<b>4.4kg</b>

11.

$$1kg = 1000g$$

$$1.5kg = 1.5 \times 1000g = 1500\text{ grams}$$

$$1kg = 1000g$$

**12.**  $40kg13g = (40 \times 1000g) + 13g = 40,000 + 13$

$$40,013\text{ grams}$$

**13.**  $1g = 1000mg$

$$800g = 800 \times 1000mg = 800,000mg$$

## Exercise 5D

### 1. Convert the following into ml.

a)  $1\text{ litre} = 1000\text{ ml.litre}$

$$8l = 8 \times 1000ml = 8000ml$$

b)  $1\text{ litre} = 1000\text{ ml.litre}$

$$14l = 14 \times 1000ml = 14000ml$$

c)  $1\text{ litre} = 1000\text{ ml.litre}$

$$32l = 32 \times 1000ml = 32000ml$$

d)  $1\text{ litre} = 1000\text{ ml.litre}$

$$59l = 59 \times 1000ml = 59000ml$$

e)  $1\text{ litre} = 1000\text{ ml.litre}$

$$62l = 62 \times 1000ml = 62000ml$$

f)  $1\text{ litre} = 1000\text{ ml.litre}$

$$71l = 71 \times 1000ml = 71000ml$$

g)  $1\text{ litre} = 1000\text{ ml.litre}$

$$85l = 85 \times 1000ml = 85000ml$$

h)  $1\text{ litre} = 1000\text{ ml.litre}$

$$99l = 99 \times 1000ml = 99000ml$$

i)  $1\text{ litre} = 1000\text{ ml.litre}$

$$0.7l = 0.7 \times 1000ml = 700ml$$

j)  $1\text{ litre} = 1000\text{ ml.litre}$

$$4.4l = 4.4 \times 1000ml = 4400ml$$

k)  $1\text{ litre} = 1000\text{ ml.litre}$

$$5.3l = 5.3 \times 1000ml = 5300ml$$

l)  $1\text{ litre} = 1000\text{ ml.litre}$

$$1.0l = 1.0 \times 1000ml = 1000ml$$

### 2. Convert the followings into millilitre.

a)  $1\text{ litre} = 1000\text{ ml.litre}$

$$5l42ml = (5 \times 1000ml) + 42ml = 5042ml$$

b)  $1\text{ litre} = 1000\text{ ml.litre}$

$$18l67ml = (18 \times 1000ml) + 67ml = 18067ml$$

c)  $1\text{ litre} = 1000\text{ ml.litre}$

$$33l21ml = (33 \times 1000ml) + 21ml = 33021ml$$

d)  $1\text{ litre} = 1000\text{ ml.litre}$

$$50l17ml = (50 \times 1000ml) + 17ml = 50017ml$$

e)  $1\text{ litre} = 1000\text{ ml.litre}$

$$72l28ml = (72 \times 1000ml) + 28ml = 72028ml$$

f)  $1\text{ litre} = 1000\text{ ml.litre}$

$$93l86ml = (93 \times 1000ml) + 86ml = 93086ml$$

g)  $1\text{litre} = 1000\text{ml.litre}$   
 $33l14ml = (33 \times 1000\text{ml}) + 14\text{ml} = 33014\text{ml}$

h)  $1\text{litre} = 1000\text{ml.litre}$   
 $12l26ml = (12 \times 1000\text{ml}) + 26\text{ml} = 12026\text{ml}$

i)  $1\text{litre} = 1000\text{ml.litre}$   
 $39l68ml = (39 \times 1000\text{ml}) + 68\text{ml} = 39068\text{ml}$

### 3. Convert the following in litres.

a)  $5000\text{ml} = \frac{5000}{1000}l = 5l$

b)  $3000\text{ml} = \frac{3000}{1000}l = 3l$

c)  $600\text{ml} = \frac{600}{1000}l = 0.6l$

d)  $210\text{ml} = \frac{210}{1000}l = 0.21l$

e)  $10,000\text{ml} = \frac{10,000}{1000}l = 10l$

f)  $27,000\text{ml} = \frac{27,000}{1000}l = 27l$

48m 46cm
+12m 45cm
<b>60m 91cm</b>

15kg 126g
+26kg 426g
<b>41kg 552g</b>

### 3. Add the following.

a)

8l 570ml
+29l 736ml
<b>37l 1306ml</b>

b)

6l 752ml
+25l 840ml
<b>31l 1592ml</b>

### 4. Subtract

a)

95km 57m
-40km 20m
<b>55km 37m</b>

b)

106kg 95g
-73kg 85g
<b>33kg 10g</b>

c)

96m 12cm
-76m 11cm
<b>20m 1cm</b>

d)

56g 70mg
-15g 27mg
<b>41g 43mg</b>

e)

65m 35mm
-11m 10mm
<b>54m 25mm</b>

f)

78cm 13mm
-42cm 8mm

## Exercise 5E

a)

8km 45m
+12km 963m
<b>20kg 1008m</b>

b)

15kg 816g
+26kg 506g
<b>41kg 1322g</b>

c)

15cm 2mm
+28cm 9mm
<b>43cm 11mm</b>

d)

**36cm 5mm**

**5. Subtract**

a)

$$\begin{array}{r} 38\text{l } 326\text{ml} \\ -12\text{l } 430\text{ml} \\ \hline 26\text{l } 104\text{ml} \end{array}$$

b)

$$\begin{array}{r} 26\text{l } 9\text{ml} \\ -10\text{l } 89\text{ml} \\ \hline 16\text{l } 80\text{ml} \end{array}$$

6.

$$\begin{array}{r} 16\text{km } 21\text{m} \\ +10\text{km} \\ \hline 26\text{km } 21\text{m} \end{array}$$

7.

$$\begin{array}{r} 175\text{km } 21\text{m} \\ +19\text{km} \\ \hline 194\text{km } 21\text{m} \end{array}$$

$$\begin{array}{r} 200\text{km} \\ -194\text{km } 21\text{m} \\ \hline 7\text{km } 49\text{m} \end{array}$$

8.

$$\begin{array}{r} 8\text{km } 45\text{m} \\ +12\text{km } 963\text{m} \\ \hline 20\text{kg } 1008\text{m} \end{array}$$

9.

$$\begin{array}{r} 26\text{km } 25\text{m} \\ +13\text{km } 74\text{m} \\ \hline 39\text{km } 99\text{m} \\ 40\text{km } 50\text{m} \\ -39\text{km } 99\text{m} \\ \hline 1\text{km } 49\text{m} \end{array}$$

10.

$$\begin{array}{r} 8\text{kg } 820\text{g} \\ 15\text{kg} \\ +11\text{kg } 200\text{g} \\ \hline 34\text{kg } 1020\text{g} \end{array}$$

11.

$$\begin{array}{r} 20\text{kg } 57\text{g} \\ -19\text{kg } 52\text{g} \\ \hline \end{array}$$

12.

**1kg 5g**

13.

$$\begin{array}{r} 3\text{l } 25\text{ml} \\ +2\text{l } 27\text{ml} \\ \hline 5\text{l } 52\text{ml} \end{array}$$

$$\begin{array}{r} 30\text{l} \\ -20\text{l} \\ \hline 10\text{l} \end{array}$$

## Exercise 5F

**1. Convert into minutes.**

$$1\text{hour} = 60\text{ min}$$

a)  $9h42\text{ min} = (9 \times 60) + 42 = 540 + 42 = 582\text{ min}$

$$1\text{hour} = 60\text{ min}$$

b)  $18h5\text{ min} = (18 \times 60) + 5 = 1080 + 5 = 1085\text{ min}$

$$1\text{hour} = 60\text{ min}$$

c)  $27h22\text{ min} = (27 \times 60) + 22 = 1620 + 22 = 1642\text{ min}$

$$1\text{hour} = 60\text{ min}$$

d)  $40h11\text{ min} = (40 \times 60) + 11 = 2400 + 11 = 2411\text{ min}$

$$1\text{hour} = 60\text{ min}$$

e)  $21h = 21 \times 60 = 1260\text{ min}$

$$1\text{hour} = 60\text{ min}$$

f)  $23h14\text{ min} = (23 \times 60) + 14 = 1380 + 14 = 1394\text{ min}$

**2. Convert into seconds.**

$$1 \text{ min} = 60 \text{ sec}$$

a)  $100 \text{ min } 11 \text{ sec} = (100 \times 60) + 11 = 6000 + 11 = 6011 \text{ sec}$

$$1 \text{ min} = 60 \text{ sec}$$

b)  $176 \text{ min } 12 \text{ sec} = (176 \times 60) + 12 = 10,560 + 12 = 10,572 \text{ sec}$

$$1 \text{ min} = 60 \text{ sec}$$

c)  $65 \text{ min } 37 \text{ sec} = (65 \times 60) + 37 = 3900 + 37 = 3937 \text{ sec}$

$$1 \text{ min} = 60 \text{ sec}$$

d)  $432 \text{ min } 03 \text{ sec} = (432 \times 60) + 3 = 25,920 + 3 = 25,923 \text{ sec}$

$$1 \text{ min} = 60 \text{ sec}$$

e)  $1 \text{ min } 13 \text{ sec} = (1 \times 60) + 13 = 60 + 13 = 73 \text{ sec}$

$$1 \text{ min} = 60 \text{ sec}$$

f)  $7 \text{ min } 12 \text{ sec} = (7 \times 60) + 12 = 420 + 12 = 432 \text{ sec}$

f) 12:56 a m

## Exercise 5G

**1.2 Convert the following into months.**

a)  $1 \text{ year} = 12 \text{ months}$   
 $9 \text{ years} = 9 \times 12 = 108 \text{ months}$

b)  $1 \text{ year} = 12 \text{ months}$   
 $16 \text{ years} = 16 \times 12 = 192 \text{ months}$

**1.2 Convert the following into months.**

c)  $1 \text{ year} = 12 \text{ months}$   
 $21 \text{ years } 10 \text{ months} = (21 \times 12) + 10 = 252 + 10 = 262 \text{ months}$

**1.2 Convert the following into months.**

d)  $1 \text{ year} = 12 \text{ months}$   
 $30 \text{ years } 11 \text{ months} = (30 \times 12) + 11 = 360 + 11 = 371 \text{ months}$

**1.2 Convert the following into months.**

e)  $1 \text{ year} = 12 \text{ months}$   
 $43 \text{ years } 7 \text{ months} = (43 \times 12) + 7 = 516 + 7 = 523 \text{ months}$

**1.2 Convert the following into months.**

f)  $1 \text{ year} = 12 \text{ months}$   
 $5 \text{ years } 4 \text{ months} = (5 \times 12) + 4 = 60 + 4 = 64 \text{ months}$

### 3. Convert .

- a) 07:35 a m
- b) 14:50 p m
- c) 11:53 a m
- d) 17:16 p m
- e) 13:35 p m
- f) 03:40 a m

### 4. Convert .

- a) 05:25 a m
- b) 03:20 p m
- c) 09:48 a m
- d) 06:42 p m
- e) 03:31 p m

### 2. Convert the following into days.

**1.2 Convert the following into days.**

a)  $1 \text{ month} = 30 \text{ days}$   
 $41 \text{ months } 13 \text{ days} = (41 \times 30) + 13 = 1230 + 13 = 1243 \text{ days}$

**1.2 Convert the following into days.**

b)  $1 \text{ month} = 30 \text{ days}$   
 $27 \text{ months } 2 \text{ days} = (27 \times 30) + 2 = 810 + 2 = 812 \text{ days}$

c)  $1\text{week} = 7\text{days}$   
 $25\text{weeks} = (25 \times 7) = 175\text{days}$   
 $1\text{week} = 7\text{days}$

d)  $7\text{weeks} 2\text{days} = (7 \times 7) + 2 = 49 + 2\text{days}$   
 $= 51\text{days}$

e)  $1\text{week} = 7\text{days}$   
 $41\text{months} 12\text{days} = (41 \times 30) + 12 = 1230 + 12\text{days}$   
 $= 1242\text{days}$

f)  $1\text{week} = 7\text{days}$   
 $32\text{weeks} 4\text{days} = (32 \times 7) + 4 = 224 + 4\text{days}$   
 $= 228\text{days}$

### 3. Convert the following days into hours.

a)  $1\text{day} = 24\text{hours}$   
 $3\text{days} = 3 \times 24 = 72\text{hours}$

b)  $1\text{day} = 24\text{hours}$   
 $9\text{days} = 9 \times 24 = 216\text{hours}$

c)  $1\text{day} = 24\text{hours}$   
 $11\text{days} = 11 \times 24 = 264\text{hours}$

d)  $1\text{day} = 24\text{hours}$   
 $7\frac{1}{2}\text{days} = 7.5 \times 24 = 180\text{hours}$

e)  $1\text{day} = 24\text{hours}$   
 $4\text{days} = 4 \times 24 = 96\text{hours}$

f)  $1\text{day} = 24\text{hours}$   
 $10\text{days} = 10 \times 24 = 240\text{hours}$

g)  $1\text{day} = 24\text{hours}$   
 $2\text{days} = 2 \times 24 = 48\text{hours}$

h)  $1\text{day} = 24\text{hours}$   
 $5\frac{1}{2}\text{days} = 5.5 \times 24 = 132\text{hours}$

i)  $1\text{day} = 24\text{hours}$   
 $8\text{days} = 8 \times 24 = 192\text{hours}$

### 4. Answer the followings.

- a) 120 min
- b) 1440 days
- c) June
- d) September

## Exercise 5H

### 1. Solve the following.

a)

30h 10 min
+12h 15min
<b>42h 25m</b>

b)

5min 9sec
+10min 12sec
<b>15min 21sec</b>

c)

40years 2months
+32years 6months
<b>53years 8months</b>

d)

7months 2days
+3months 5days

**10months 7days**

**2. Solve the following.**

a)

11months 20days
-8months 5days
<b>3months 15days</b>

b)

37years 6months
-17years 5months
<b>20years 1month</b>

c)

26min 42sec
-10min 30secd
<b>16min 12sec</b>

d)

65h 28min
-42h 10min
<b>23h 18min</b>

**3. Noor travels**

a)

8h 15min
+6h 10min
<b>14h 25min</b>

b)

8h 15min
-6h 10min
<b>2h 5min</b>

4.

2years 8months
-1 year 2monthys
<b>1year 6months</b>

$$\begin{aligned}1 \text{ year } 6 \text{ months} &= (1 \times 12) + 6 = 12 + 6 \\&= 18 \text{ months}\end{aligned}$$

## Exercise 5I

**1. How many minutes have passed from 1 to clock 2.**

- a) 40 min
- b) 35 min
- c) 50 min
- d) 20 min

**2. Attempt the followings.**

- a) 1 hour 30 min
- b) 45 min
- c) 3 hours 40 min
- d) 1 hour 55 min
- e) 06:00 p m
- f) 12:30 p m
- g) 12:30 a m
- h) 40 min
- i) 10 hours 5 min
- j) 3 hours 15 min
- k) 11:47 p m
- l) 4 hours 20 min

## Geometry

### Exercise 6A

**1. Identify parallel and non-parallel.**

- a) Parallel
- b) Non parallel
- c) Non parallel
- d) Non parallel

- e) Non parallel
- f) Parallel

## Exercise 6B

### 2. Classify the following

- a) Acute
- b) Obtuse
- c) Obtuse
- d) Obtuse
- e) Acute
- f) Acute
- g) Right
- h) Acute
- i) Obtuse
- j) Acute
- k) Obtuse
- l) Acute

### 4.. How many angles are formed in each of the following figures? Name them:

- a) 3 angles  $m\angle A$ ,  $m\angle B$ ,  $m\angle C$
- b) 4 angles  $m\angle S$ ,  $m\angle P$ ,  $m\angle Q$ ,  $m\angle R$
- c) 4 angles  $m\angle U$ ,  $m\angle V$ ,  $m\angle X$ ,  $m\angle W$
- d) 6 angles  $m\angle L$ ,  $m\angle M$ ,  $m\angle N$ ,  $m\angle O$ ,  $m\angle P$ ,  $m\angle Q$

## Exercise 6C

### 1. Identify the parts of each circle.

- a) Centre = R, radius = RS, diameter = PQ
- b) Centre = C, radius = CD, diameter = AB

- c) Centre = L, radius = LK, diameter = JK
- d) Centre = X, radius = WX, diameter = YZ
- e) Centre = G, radius = HG, diameter = IJ
- f) Centre = N, radius = NP, diameter = MO

### 4. Find the radius if the diameter of the circle:

- a. radius = 6 cm
- b. radius = 18 cm
- c. radius = 14 cm
- d. radius = 4 cm

## Exercise 6D

### 1. Find the perimeter of the given shapes.

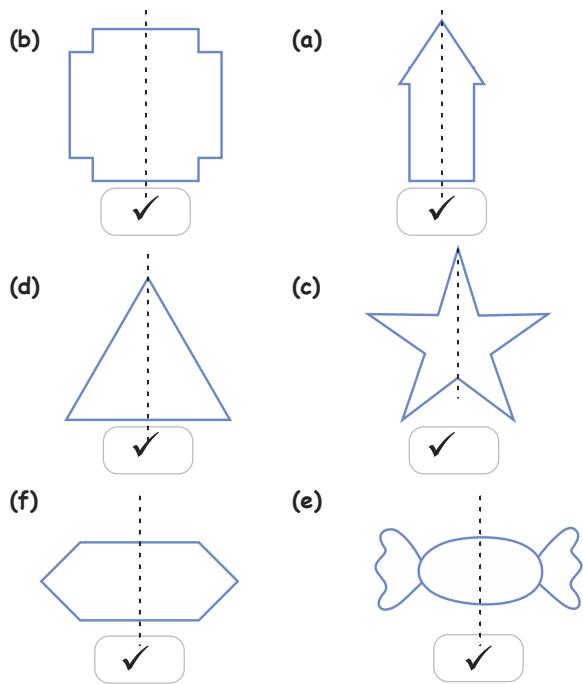
- a)  $5 \times 5 = 25$
- b)  $7 \times 4 = 28 \text{ cm}$
- c)  $6 \times 6 = 36 \text{ cm}$

### 2. Find the area of given shaded figures:

- a)  $4 \times 2 = 8 \text{ cm}^2$
- b)  $10 \times 3 = 30 \text{ cm}^2$
- c)  $4 \times 2 = 8 \text{ cm}^2$
- d)  $1 \times 7 = 7 \text{ cm}^2$

## Exercise 6E

### 1. Mark a tick on the figure where you can see a line of symmetry although draw lines of symmetry if possible.



## Exercise 6F

1. Look at the shapes and fill in the blanks.

- a) Cube , six , 12 , 8 , 8
- b) Pyramid , 4 , 8 edges , 5 corners
- c) Cuboid , six faces , 12 edges , 8 vertex.

## Unit 7

### Exercise 7A

The minimum time for students for studies of different grades is shown by using the bar graph.

- a) 4 hours
- b) At the age of 14.

2. Read the above bar graph and answer the following question.

- a) Kiran
- b) Rabiya
- c) No one have same height
- d) 10cm

3.

- a) Mahmood
- b) Adil
- c) Usama got 5 marks greater than Hamza
- d) Hamza , Mahmood , ahmed , usama
- e) Haris and saqib obtained equal marks

## Exercise 7B

1. Ali's cycling

- a) Between 9 and 10 hours
- b) Between 12 to 1 hours

2. Sana's height

- a) 25 inches
- b) 20 inches
- c) 10 years old
- d) 20.5 inches

3. Elephants population.

- a) 34
- b) 25
- c) 2008
- d) 2005
- e) 4 elephants

## Exercise 7C

**1. Different modes of transportation**

- a)** Rickshaw
- b)** Bicycle

**2. This pie chart,**

- a)** Pre-school
- b)** Grade 4