# WORKSHEET

## Subject:- Mathematics

## Class - VI

## Chapter - Fractions

**Q1.** What fraction is 1 hour of 1 day ?

**Q2.** What fraction is 50 paise of Rs. 8 ?

**Q3** Represent $\frac{5}{4}$ on the number line.

Q4. Express as improper fraction

a) $5\frac{1}{11}$ (b )$7\frac{2}{7}$

Q5. Express as mixed fraction

a)$\frac{21}{5}$ b)$\frac{40}{9}$

Q6. Write 4 equivalent fractions for each.

(a) $\frac{3}{5}$ b) $\frac{9}{11}$

Q7. Fill ups

a)$\frac{18}{25} = \frac{a}{75}$ b) $\frac{21}{77} = \frac{3}{y}$

Q8. Compare the following

a) $\frac{6}{7}, \frac{5}{8}$ b) $\frac{8}{19}, \frac{2}{9}$

Q9. Find

a) $1\frac{2}{3} + 2\frac{3}{4}$ b) $7\frac{4}{9} - 3\frac{5}{18}$

## Chapter– Decimals

**Q1.** Convert into fractions in its lowest form:

(a) 0.75 (b) 30.04

**Q2.** Convert into decimals:

(a) $\frac{4}{5}$ (b) $\frac{75}{1000}$ (c) $12\frac{7}{100}$

**Q3.** Write the place value of 9 in each one of them:

(a) 395.017 (b) 213.095 (c) 103.095

**Q4.**Fill ups using $<$ , $>$ , =

(a) 3.52 ___ 3.521

(b) 100.1 ___ 100.02

(c) 12.9 ___ 12.90

**Q5.** Convert the following into like decimals:

(a) 4.3 , 2.85 , 3.001 , 7.05 , 8.9 , 9.21

(b) 2.111 , 4.0131 , 1.08 , 3.007 , 7.1

**Q6.** Find the sum of

(a) 0.6 , 0.5 (b) 8.9 , 3.58 , 7.213

**Q7.** Subtract

(a) 0.035 from 0.098
(b) 45.07 from 73.1

**Q8.** The height of a mango tree is 3.13 m and that of an orange tree is 1.87 m. Which one is higher and by how much?

## Chapter– Data Handling

**Q1.** The heights (in cm) of 30 students of class 6 were recorded as follows:
143, 141, 142, 143, 145, 142, 144, 141, 140, 142, 141, 140, 143, 139, 144, 145, 142, 140, 141, 143, 142, 144, 145, 142, 140, 142, 141, 144, 143, 140
Prepare a tally marks table and find the number of students
a) with maximum height
b) with minimum height

**Q2.** The following table gives the data showing the number of trees planted by different classes on a 'Tree Plantation Day' in a school.

| Class | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|
| No. of trees planted | 75 | 60 | 105 | 90 | 45 |

Represent the data by a Bar Graph.

**Q3.**The following are the ages (in years) of 25 students of a class. Prepare a table using tally marks and then draw a pictograph using 1  for two students.
15, 13, 16, 12, 14, 15, 16, 13, 12, 14, 16, 16, 15, 12, 11, 15, 16, 13, 12, 14, 15, 15, 12, 11, 16

## Chapter Mensuration

**Q1.** The perimeter of a rectangle is 84 m. If its breadth is 17 m,find its length.
**Q2.** The perimeter of a square is 50 m. Find the side of a square.
**Q3.** The side of a square is 20 m. Find the cost of fencing it at Rs 15 per metre.
**Q4.** Find the number of tiles required to cover the floor of a room 12 m long and 8 m wide,each tile being a square tile of side 50 cm.
**Q5.** Tick the correct option

1. The total length aroung a closed figure is called:

(a) area (b)perimeter (c)circumference

2. Area of rectangle is

(a) l x b (b) s x s (c)2(l + b)

3. The perimeter of a rectangular pentagon of side 3cm is

(a) 12cm (b) 15cm (c) 20cm

## Chapter Algebra

**Q1.** Wrire each of the following as mathematical expression

1. The sum of 11 and x
2. A number x increased by 8.

3. One hundred divided by a number p.
4. 5 less than twice a number y.
5. One subtracted from five times a number multiplied by two.

**Q2.** Find a rule which gives the cost of a given number of books x if one book costs Rs 29.

**Q3.** Find a rule for the perimeter of regular hexagon whose each side measures y cm.

**Q4.** Find the value of each expression:

(a) $3x-4$ $x=2, x=7$

(b) $3x-y+2z$ $x=2, y=3, z=4$

## Chapter– Ratio and Proportion

**Q1.**The annual income of Praneeta is Rs 250000 and she saves Rs 50000 annually.Find the

(a) ratio of savings to total income

(b) ratio of savings to expenditure

(c) ratio to income to expenditure

**Q2.**Find x

a). 4:16::x:8

b). x:6::24:32

**Q3.** If a dozen erasers cost Rs 54, how many erasers can be bought for Rs 99.

**Q4.** A train covers 300 km in 4 hours. Find the distance covered by train in 9 hours.

**Q5.** Divide Rs 5850 between Suvidhea and Shweta in the ratio 11:7

**Q6.**Which is greater ratio:

a) 2:3 or 3:4

b) 5:6 or 7:8

c)11:12 or 3:5

**Q7.** Find 3 equivalent ratios of 8:14

## Chapter –Practical Geometry

**Q1.** Draw a line segment AB= 5.4 cm.From this cut off AK= 3.8 cm

**Q2.** Draw two line segments MN=3.1 cm and RS= 2.9 cm.Then draw a line segment AB=MN + RS.

**Q3.** Take a line segment XY= 5.2 cm. Take any point M on it. At M draw a perpendicular MN on XY.

**Q4.** Construct an Angle of 45 degree using ruler and compasses.

**Q5.** Draw an angle of 60 degree. Draw its bisector.