HOLIDAY HOMEWORK
CLASS-VIIth   SUB.- MATHS

1. Revise ch-1 and ch-6 for UT.

2. Learn and write table from 2 to 20 twice.

3. Make different polygons using matchsticks and name them.

4. Write properties of integers on chart paper.

5. Write formulas for area and perimeter of the following on chart paper.
   (I) Circle   (II) Rectangle
   (III) Square   (IV) Parallelogram
   (V) Triangle.

6. Do given work sheets in your note book.

Representation of Decimals

1. Choose the correct option. (MCQ's)

(i) Which of the following groups of decimals is not a group of like decimals ?
- (a) 9.05, 2.10, 0.65
- (b) 1.751, 7.510, 13.206
- (c) 12.1, 12.50, 3.17
- (d) 8.79, 6.07, 6.05

(ii) Five hundred twenty-four, nine tenth is written as
- (a) 524.09
- (b) 52.49
- (c) 5.249
- (d) 524.9

(iii) $7000 + 40 + 3 + \dfrac{1}{10} + \dfrac{5}{100}$ can be expressed as
- (a) 7400.35
- (b) 7040.35
- (c) 704.35
- (d) 7043.15

(iv) The expanded form of 8.06 is
- (a) $(8 \times 10) + \left(6 \times \dfrac{1}{10}\right)$
- (b) $(8 \times 1) + \left(6 \times \dfrac{1}{10}\right)$
- (c) $(8 \times 1) + \left(6 \times \dfrac{1}{100}\right)$
- (d) $(8 \times 10) + \left(6 \times \dfrac{1}{100}\right)$

(v) Which of the following groups have like decimals ?
- (a) 5.5, 5.05, 5.005, 5.50
- (b) 5.5, 0.55, 5.55, 5.555
- (c) 5.5, 6.6, 7.7, 8.8
- (d) 2.1, 1.01, 3.1, 4.1

(vi) $1 + \dfrac{5}{10} + \dfrac{9}{1000}$ is equal to
- (a) 1.59
- (b) 1.590
- (c) 1.509
- (d) 0.159

2. Compare the following pairs of decimal numbers and put > or < in the blanks :

(i) 12.01 .... 10.99

(ii) 5.673 .... 5.672

(iii) 8.755 .... 8.765

(iv) 6.94 .... 7.1

3. Write the expanded form of :

(i) 13.21 ....

(ii) 45.201 ....

(iii) 33.333 ....

(iv) 153.21 ....

4. Write decimals for each of the following :

(i) 5 ones + 6 tenths + 4 hundredths + 2 thousandths

(ii) 6 tens + 3 ones + 2 tenths + 5 hundredths

(iii) 5 hundreds + 5 hundredths

(iv) 2 thousands + 2 thousandths

Teacher's Signature : ....

Fractions and Decimals

1. Choose the correct option. (MCQ's)

(i) The value of $\dfrac{9}{1000}$ is

    (a) 0.9   (b) 0.09   (c) 0.0009   (d) 0.009

(ii) The fractional form of 1.07 is

    (a) $\dfrac{17}{100}$ (b) $\dfrac{107}{1000}$ (c) $\dfrac{107}{100}$ (d) $\dfrac{107}{10}$

(iii) 2 m 8 cm is equal to

    (a) 2.8 m   (b) 2.08 m   (c) 2.008 m   (d) 2.28 m

2. Convert the following decimals into fractions :

(i) 4.25   ☐   (ii) 112.625   ☐

3. Convert the following as fraction in the lowest term or as mixed fraction :

(i) 210.200 ☐   (ii) 32.04 ☐   (iii) 3.125 ☐

(iv) 0.375 ☐   (v) 6.0005 ☐   (vi) 0.0125 ☐

(vii) 2.253 ☐   (viii) 94.07 ☐

4. Convert each of the following fractions into decimal :

(i) $\dfrac{433}{10}$ ☐   (ii) $\dfrac{371}{1000}$ ☐   (iii) $\dfrac{1}{1000}$ ☐   (iv) $\dfrac{5}{100}$ ☐

(v) $\dfrac{51}{100}$ ☐   (vi) $\dfrac{7}{1000}$ ☐   (vii) $27\dfrac{3}{100}$ ☐   (viii) $\dfrac{1111}{10}$ ☐

5. Convert the following into decimals :

(i) $\dfrac{7}{5}$ ☐   (ii) $\dfrac{31}{80}$ ☐   (iii) $\dfrac{137}{2}$ ☐   (iv) $7\dfrac{2}{5}$ ☐

(v) $13\dfrac{1}{8}$ ☐   (vi) $\dfrac{255}{12}$ ☐   (vii) $\dfrac{5}{8}$ ☐   (viii) $\dfrac{45}{12}$ ☐

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Operations of Decimals

1. Choose the correct option. (MCQ's)

(i) The value of (0.89 + 17.4) is equal to
 (a) 17.93 (b) 18.92 (c) 17.9 (d) 18.29

(ii) The value of (38.3 – 30.59) is equal to
 (a) 7.53 (b) 5.97 (c) 7.71 (d) 7.81

(iii) A 12 m 65 cm pole was put in a pond to measure its depth. If 4 m 72 cm of pole remained outside the water, the depth of pond is
 (a) 6.93 m (b) 7.93 m (c) 6.43 m (d) 4.09 m

2. Add :

(i) 18.712 + 4.8 + 1.86 + 10.05

(ii) 1 + 1.01 + 1.1 + 0.011 + 0.01

3. Subtract 21.61 from 32.02.

4. Add the following quantities and express in decimals :

(i) 4 km 231 m and 1 km 58 m

(ii) 100 kg 433 g and 2 kg 125 g

(iii) ₹ 2.50 and ₹ 1.30

(iv) 86 l 2 ml and 2 l 56 ml

5. By how much is 20 m greater than 1898 cm ? Give your answer in m.

6. A person spent ₹ 59,287.90 on white washing, ₹ 28,389.96 on travelling and ₹ 15,280.71 for hotel accomodation. If he has ₹ 65,800 left with him, how much money did he have in the beginning ?

7. A man deposited two cheques of ₹ 1205.65 and ₹ 595.35 in his bank account. Find the total amount deposited by him.

8. At the beginning of the summer, you were 1.63 m tall. You grew 5 cm during summer. What was the height at the end of summer ?

9. Ram Gopal purchased a box of 30 kg of apples. If 2 kg 455 g of apples were found spoiled and 19 kg 500 g were consumed, how much apples were left ?

(4)

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1. Choose the correct option. (MCQ's)

(i) The ratio of 200 m to 1.2 km is
   (a) 1 : 4   (b) 1 : 6   (c) 2 : 7   (d) 2 : 5

(ii) The ratio of 5 dag to 2 hg is
   (a) 5 : 2   (b) 2 : 5   (c) 1 : 6   (d) 1 : 4

(iii) The ratio 24 : 56 in the lowest term is
   (a) 6 : 14   (b) 12 : 28   (c) 3 : 7   (d) 2 : 7

(iv) In the ratio 1 : 2, 1 is called the
   (a) antecedent   (b) consequent   (c) unit term   (d) Both (a) and (b)

2. Fill in the blanks :

(i) The first term of a ratio is called as ....

(ii) The second term of a ratio is called as ....

(iii) Ratio is a number. It has .... unit.

(iv) A ratio whose terms have no common factor other than 1 is said to be in the .... form.

3. Which of the following statements are **true** ?

(i) A ratio is a fraction. It cannot be an integer.

(ii) A ratio of two quantities is their comparison by difference.

(iii) A ratio has no unit.

(iv) A ratio compares only two numbers.

4. Write each of the following ratios in the simplest form :

(i) 15 : 45 ☐   (ii) 35 : 105 ☐   (iii) 90 : 270 ☐   (iv) 90 : 450 ☐

5. Find the ratio of the first number to the second number in each of the following :

(i) 15, 35 ☐   (ii) 35, 15 ☐   (iii) 15, 20 ☐   (iv) 80, 50 ☐

6. Write a ratio for each of the following :

(i) ₹ 2 to 60 paise ☐   (ii) 6 dozens to 2 gross ☐   (iii) 60 mm to 5 cm ☐

(iv) 2 kg to 3000 gm ☐   (v) 75 m*l* to 6 litres ☐

(5)

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1. Choose the correct option. (MCQ's)

(i) In the proportion 4 : x = x : 9, the value of x is

(a) 8   (b) 5   (c) 6   (d) 12

(ii) If a, b, c, d are in proportion, then

(a) ac = bd   (b) ab = cd   (c) $\dfrac{a}{d} = \dfrac{b}{c}$ (d) $\dfrac{a}{c} = \dfrac{b}{d}$

(iii) In the proportion 15 : 3 = 120 : 24, we have

(a) $\dfrac{15}{120} = \dfrac{3}{24}$ (b) $\dfrac{15}{24} = \dfrac{3}{120}$ (c) $15 \times 120 = 3 \times 24$ (d) All of these

(iv) If m, n, p are in continued proportion, then

(a) m : n = n : p   (b) $n^2 = pm$ (c) $\dfrac{m}{n} = \dfrac{n}{p}$ (d) All of these

2. Write the extremes in 4 : 5 = 20 : 25.

3. Write the means in 25 : 5 = 20 : 4.

4. Which of the following statements are true ?

(i) 16 : 32 = 16 : 32   (ii) 8 : 16 = 16 : 8   (iii) 10 : 15 = 20 : 25

5. Which of the following statements are true ?

(i) All the quantities involved in a proportion must be in the same units.

(ii) If 20 : 15 = 28 : 21 then 15, 20, 21, 28 are in proportion.

(iii) If $b^2 = ac$ then a, b, c are in continued proportion.

6. Find the value of x in each of the following proportions :

(i) 6 : 11 = x : 55   (ii) 84 : x = 63 : 27

(iii) x : 63 = 36 : 81   (iv) 30 : 40 = 45 : x

(v) 3 : 15 = x : 105   (vi) 20 : x = 12 : 15

7. Find the mean proportion of 4 and 9.

8. If 4, x and 16 are in continued proportion then find the value of x.

9. Find x in each of the following proportions :

(i) 169 : x = x : 1   (ii) 125 : x = x : 5

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