WORKSHEET – 2
TOPIC - RATIO , PROPORTION AND UNITARY METHOD

Example Question: The ratio of Rs. 6 to Rs. 18 is expressed as 1: 3 in simplest form similarly solve the following

1. (a) The ratio of 13 kg rice to 91 Kg rice
(b) If number of holidays in 2011 is 73, what is Ratio of number of holidays to number of days in 2011
(c) Cost of toffee is 75 paise to cost of chocolate is Rs. 3.75

2. The present age of father is 45 years and that of son is 15 years. Find the ratio of
(a) Present age of father to present age of son
(b) Age of father to present age of son when son was 10 years old
(c) Age of father after 10 years to age of son after 10 years
(d) Age of father to age of son when father will be 60 years old

3. Three boys are aged 10 years, 12 years and 16 years. They want to divide Rs. 4560 in the ratio of their ages. How much money would each get?

4. Determine if the following are in proportion. Show method?
(a) 25, 30, 40, 48   (b) 33, 44, 75, 100   (c) 30, 45, 16, 24

5. The ratio of income to expenditure of a family is 9 : 4. Find the income if the saving is Rs. 3600

6. Pradeep pays Rs. 96   as rent for 3 months. How much does he pay for the whole year?

7. The cost of 8 kg mangoes is Rs. 192. How many kg of mangoes can be purchased for Rs.576 ?

TOPIC - DECIMALS
8. Add   (a) 16.1 + 1.161 +116   (b) 6.6 + 6.66 + 66.666

9. Subtract   (a) 217.35 from 316.97   (b) 86.786 fro 88.82

10. Express as metre using decimals:
(a) 30 cm   (b) 175 cm   (c) 29m 5cm

11. Express in rupees using decimals:
(a) 2 paise   (b) 315 paise   (c) 50 rupees 90 paise

12. Jaya had 16m 9cm long cloth. She cuts 7m 50 cm length of cloth from this. How much cloth is left with her?

13. MULTIPLE CHOICE QUESTIONS – <u>ALGEBRA</u>

1. The number that is three times the sum of four and six is
   (a) 30   (b) 20   (c) 18   (d) 40

2. If 11 is subtracted from a number, it results to 19. The number is
   (a) 20   (b) 30   (c) 40   (d) none of these

3. If, $5x + 2 = 22$, then value of x is
   (a) 3   (b) 4   (c) 2   (d) 6

4. 'Seven more than twice a number x' is mathematically written as
   (a) $7 + x + 2$ (b) $2x + 7$ (c) $\dfrac{x}{2+7}$ (d) $\dfrac{2+x}{7}$

5. A number is divided by 6. The quotient is added to 5 and the result is 8. The number is
   (a) 12   (b) 16   (c) 18   (d) 14

6. Four times a certain number decreased by thrice the same number gives 17. Then the number is
   (a) 17   (b) 34   (c) 7   (d) $\dfrac{17}{7}$

7. A number which when multiplied by 3 gives 42. The number is
   (a) 16   (b) 15   (c) 14   (d) 18

8. Priyanka thought of a number. She doubled it and then added 6. The answer was 24. Which number did she think of
   (a) 8   (b) 9   (c) 11   (d) 12

9. The length of a rectangle is 9 cm and its breadth is y cm .It's perimeter is
   (a) $(y + 9) + 2$ (b) $2 \times (y + 9)$ (c) $2y + 9$ (d) $y + 18$

10. For what value of a, $5a + 10 = 15$
   (a) 1   (b) 2   (c) 4   (d) 3

PUZZLE

A girl was asked to find LCM of 3, 5, 12 and another number. But while calculating she wrote 21 instead of 12 and yet came with the correct answer. What could be the fourth number?

"Just because we can't find a solution, it doesn't mean there isn't one"

❧ BEST OF LUCK ❧