



# RAMAGYA SCHOOL, NOIDA

Session 2018-19

Class V – Mathematics

Olympiad Worksheet

NAME: \_\_\_\_\_

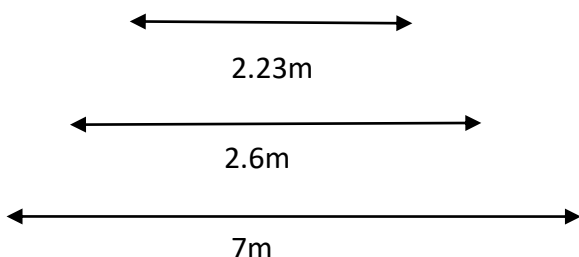
MONTH: AUGUST

## CONCEPT BASED QUESTIONS

- The numbers which have only two factors(1 and the number itself) are called as :  
a) Composite                      b) even                      c) prime                      d) none of these
- Every number is a \_\_\_\_\_ and a \_\_\_\_\_ of itself.  
a) Prime, composite      b) even, odd                      c) factor, multiple      d) none of these
- 20 is written as the product of primes as:  
a)  $2 \times 5$                       b)  $2 \times 2 \times 2 \times 5$                       c)  $2 \times 2 \times 5$                       d)  $2 \times 2 \times 3$
- Number of prime numbers from 1 to 50 are:  
a) 18                      b) 12                      c) 15                      d) 20
- Choose the co-prime numbers from the following pairs:  
a) 7 and 63                      b) 36 and 25                      c) 35 and 21                      d) 63 and 81
- The product of a fractional number and its multiplicative inverse is \_\_\_\_\_.  
a) 0                      b) 1                      c) number itself                      d) none of these

## APPLICATIONS BASED QUESTIONS

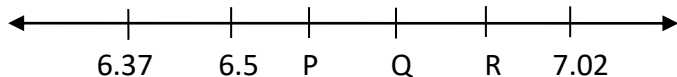
- Ravi had  $\frac{5}{6}$  of a cake. He ate  $\frac{2}{3}$  of it. What part of cake did he eat?  
a)  $\frac{5}{9}$                       b)  $\frac{10}{12}$                       c)  $\frac{10}{6}$                       d)  $\frac{10}{3}$
- If the cost of 15 pens is Rs. 148.50. Then the cost of one pen is:  
a) Rs. 12.80                      b) Rs. 8.90                      c) Rs. 10.90                      d) Rs. 9.90
- If  $29 \times 27 = 783$ , then  $0.29 \times 0.27 =$  \_\_\_\_\_.  
a) 0.783                      b) 0.0783                      c) 78.3                      d) 7.83
- The diagram shows three ropes.



What is the total length, in m, of the three ropes?

- a) 11.83                      b) 13.53                      c) 13.57                      d) 14.37

11. The diagram shows an incomplete number line.



Calculate the value of  $P + Q - R$ .

- a) 5.59                      b) 6.47                      c) 6.5                      d) 20.27

**LOGICAL BASED QUESTIONS**

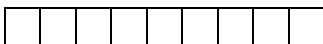
12. 16.37 and 18.97 are:

- a) Unlike decimal fractions                      c) like decimal fraction  
b) Equivalent decimal fraction                      d) none of these

13.  $\triangle + \square = 7$   
 $\triangle - \square = 1$

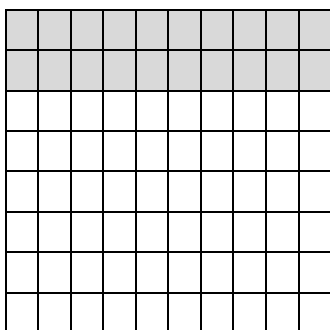
If these number sentences are true, which of the following may be correct?

- a)  $\triangle = 4, \square = 3$                       c)  $\triangle = 6, \square = 1$   
b)  $\triangle = 3, \square = 4$                       d)  $\triangle = 5, \square = 2$

14. If  $\square$  represents one tenth, then  represents \_\_\_\_\_

- a) 0.9                      b) 0.1                      c) 1                      d) 0.

15. The grid below is shaded to represent a fraction.



What fraction of the grid is shaded?

- a) 1/20                      b) 1/5                      c) 1/4                      d) 1/3

16. The sum of two numbers is 13140. If one of the addends is twice the other addend, then what is the value of the smaller addend?

- a) 4380                      b) 3480                      c) 8760                      d) 8043

## HOTS

17. In a warehouse, the workers start their work daily at 08:45 AM and end at 05:20 PM. They get a break of 25 minutes to have lunch, and two coffee breaks of 20 minutes each. What is the simplest form of ratio of the time they spend working to the time of their breaks?
- a) 13:90                      b) 90:13                      c) 25:20                      d) 20:25
18. If 'a' means '-', 'b' means '+', 'c' means 'x' and 'd' means '÷', then what is the value of the expression:  $11 a 8 b 15 c 25 d 5$  ?
- a) 67                              b) 87                              c) 78                              d) 76
19. The daily consumption of milk of a family is  $3\frac{1}{4}$  litres. The quantity of milk consumed by the family during the month of June 2017 is :
- a) 90 litres                      b)  $100\frac{1}{2}$  litres                      c)  $97\frac{1}{2}$  litres                      d) none of these
20. Ram Gopal reads  $\frac{3}{5}$  of a book. He finds that there are still 80 pages left to be read. Total number of pages in the book are:
- a) 100                              b) 200                              c) 300                              d) 400