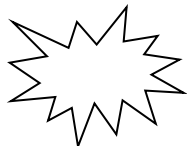




RAMAGYA SCHOOL, NOIDA
V/Mathematics/2017-18
Olympiad Practice Worksheet

CONCEPT BASED QUESTIONS

1) We know that a square has 4 corners. Find number of corners in the given shape.



- a. 8 b.15 c. 14 d. 12

2) If the letters of the English alphabet are written in order, what will be the letter at the 9th place on right of the letter **H**?

- a. S b. Q c. O d. R

3) Following table shows cameras manufactured by two companies in 4 weeks.

Week	Company A	Company B
1	30	40
2	30	40
3	50	60
4	35	25

Which of following statement is true ?

- a. In first and last week Company A manufactured fewer cameras than Company B
b. In last two weeks Company A manufactured more cameras than Company A
c. In 4 weeks Company A manufactured fewer cameras than Company B
d. In first two weeks Company A manufactured more cameras than Company B

4) After buying 3 pencils at Rs. 12 each, Ramakrishna has Rs. 7 left. How much amount did he have at first?

- a. 45 b.43 c.42 d.46

5) Find the predecessor of smallest 4 digit number.

- a. 1000 b. 999 c. 998 d. 997

APPLICATIONS BASED QUESTIONS

6) Compare Roman Numbers DCCXCII _____ MMCCCXVIII (use <, >, =)

- a. < b. = c. > d. none

7) Which of the following is correct?

- a. $400 + 21 = 402 + 1$ b. $400 + 21 = 410 + 2$
c. $400 + 21 = 40 + 21$ d. $400 + 21 = 401 + 20$

8) Find the missing time in the pattern 07:00, 07:20, _____, 08:00

- a.08:00 b. 07:40 c. 07:30 d. 07:50

9) Which rule can be used to explain this number pattern?

1, 6, 26, 106, 426, 1706, 6826,.....

- a. Multiply by 4 and add 2
- b. Multiply by 1, then multiply by 2, then multiply by 3, and so on
- c. Add 0, then add 1, then add 2, and so on
- d. Multiply by 4 and subtract 2

10) The product of the least three digit number and the greatest number of three digits which can be formed with the digits 0, 9 and 6 is:

- a. 99,900 b. 5, 84,640 c. 66,240 d. 8, 69,760

LOGICAL BASED QUESTIONS

11) $\begin{array}{c} \triangle \\ \square \end{array} + \square = 7$
 $\square - \triangle = 1$

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

$\triangle = 4, \square = 3$

$\triangle = 3, \square = 4$

$\triangle = 6, \square = 1$

$\triangle = 5, \square = 2$

12) Clock: Time: Thermometer:?

- a. Heat b. Radiation c. Energy d. Temperature

13) Which is the number that comes next in the following sequence?

4, 6, 12, 14, 2, 30, _____

- a. 32 b. 60 c. 62 d. 64

14) 20, 19, 17, _____, 10, 5

- a. 12 b. 13 c. 14 d. 15

15) $8888 - 2606 + X = 9999$, find the value of $X + X$.

- a. 3717 b. 6282 c. 7434 d. 7443

HOTS

16) How many hundreds must be subtracted from 30 thousands to get 282 hundreds?

- a. 210 b. 1800 c. 18 d. 21

17) The product of 123 and 11 multiplied by 10 is equal to

- a. 1353 b. 13530 c. 15330 d. 15600

18) Yesterday, Mrs. Mark made 325 chocolate biscuits in the morning and another 247 chocolate biscuits in the afternoon. During birthday party, 368 biscuits were eaten. How many biscuits were left?

- a. 204 b. 572 c. 264 d. 467

19) $3192 \div 7 = 4$ hundreds, _____ tens, and 6 ones. What must be written in _____?

- a. 4 b. 5 c. 6 d. 50

20) In a stadium, there are 1050 men and the number of women is 236 more than the number of men. The number of children is 847 less than the number of women. What is the total number of people altogether?

a. 1725

b. 2133

c. 2775

d. 2875