



**RAMAGYA SCHOOL, NOIDA**  
**OLYMPIAD WORKSHEET**  
**CLASS – VI**

**(Concept based)**

1. Three or more lines passing through a common point are known as  
(A) Intersecting lines (B) Concurrent lines (C) Parallel lines (D) Transversal lines
2. Representing data using pictures is known as  
(A) Bar graph (B) Pie chart (C) Histogram (D) Pictograph
3. Line of symmetry is also known as  
(A) Base of symmetry (B) Centre of symmetry  
(C) Axis of symmetry (D) Side of symmetry
4. Name a letter of English alphabet which has more than three lines of symmetry.  
(A) W (B) A (C) Y (D) O

**(Application based)**

5. There are 5 bowls on a table with 7 candies in each bowl. Three candies are taken away from each bowl. How many candies are left in the bowls?  
(A) 20 (B) 25 (C) 30 (D) 35
6. Which of the following is the additive identity in the set of Whole numbers?  
(A) 1 (B) Zero (C) -1 (D) Any number
7. Select the fastest way to multiply  $160 \times 625 \times 25$   
(A)  $(160 \times 25) \times 625$  (B)  $(625 \times 25) + (160 \times 25)$   
(C)  $(625 \times 25) \times 160$  (D)  $(625 \times 160) \times 25$
8. The HCF and the LCM of two numbers is 15 and 450 respectively. If one of the numbers is 75, what is the other number?  
(A) 90 (B) 80 (C) 70 (D) 60

**HOTS**

9. Neha bought a painting for Rs 360 and a photo frame for Rs 239. How much money did she spend if she bought 3 paintings and 3 photo frames?  
(A) 1,797 (B) 1798 (C) 1796 (D) 1795
10. The angles of a triangle are in the ratio 1:2:3. Find the magnitude of each angle.  
(A) 40, 50, 90 (B) 30, 60, 90 (C) 35, 55, 90 (D) 45, 45, 90

11. Find the smallest number which when divided by 18, 12 and 24 leaves a remainder of 16, 10 and 22 respectively.

- (A) 90                      (B) 70                      (C) 80                      (D) 60

**(Value based)**

12. A room is 7m 20cm long and 5m 20cm broad. If square tiles have to be laid in such a way that an exact number of tiles fit in and no tile has to be cut, what is the greatest length of the side of the square tiles?

- (A) 35 cm                      (B) 45 cm                      (C) 50 cm                      (D) 40 cm

13. When an army commander arranged to transport his battalion of soldiers, he considered 30-seater, 40-seater and 50-seater buses. In all three cases, he found that 10 seats were left vacant. What is the smallest number of soldiers in his battalion?

- (A) 390                      (B) 490                      (C) 590                      (D) 690

**(Logical Reasoning)**

14. Which set is most like the given set?

- (A) (4, 9, 20)                      (B) (16, 33, 67)                      (C) (13, 30, 67)                      (D) (5, 12, 25))

15. Complete the number series: 1, 4, 2, 8, 6, 24, 22, 88, (?)

- (A) 86                      (B) 352                      (C) 90                      (D) 154

16. If the English Alphabet is written in reverse and order then every alternate letter starting from Y, is deleted, then which letter will be exactly in the middle?

- (A) M                      (B) O                      (C) N                      (D) M or O

17. Ritesh is son of Varun. Sarika, Varun's sister has a son Rahul and a daughter Riya. Sahil is the maternal uncle of Rahul. How is Ritesh related to Rahul?

- (A) Nephew                      (B) Cousin                      (C) Uncle                      (D) Father

18. If  $\frac{7}{9}$  of a number is 63, the  $\frac{1}{3}$  of the number is \_\_\_\_\_

- (A) 21                      (B) 27                      (C) 49                      (D) 42

19. If  $687 + 509 = 560897$ , then  $619 + 703 =$

- (A) 760931                      (B) 760891                      (C) 760139                      (D) 760193

20. Rohan put his timepiece on the table in such a way that at 9:15 P.M. the hour hand points to North. In which direction will the minute hand point at 6:30 P.M.?

- (A) East                      (B) West                      (C) North                      (D) South