



RAMAGYA SCHOOL, NOIDA
CLASS VI/MATHEMATICS/2017-18
OLYMPIAD PRACTICE WORKSHEET

(Concept based)

1. The predecessor of 60100 is
(A) 60105 (B) 60099 (C) 60101 (D) 60095
2. Which is the successor of 1099999
(A) 1100001 (B) 1100000 (C) 1099999 (D) 9999999
3. 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) $(625 \times 160) \times 25$
4. Which of the following is a prime number?
(A) 33 (B) 81 (C) 93 (D) 97

(Application based)

5. If a number is divisible by 9 and 12 then it will be necessarily divisible by
(A) 34 (B) 36 (C) 38 (D) 39
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. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is
(A) 101 (B) 107 (C) 111 (D) 185
8. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case
(A) 4 (B) 7 (C) 9 (D) 13

(HOTS)

9. The largest number that divides 615 and 963 leaving remainder 6 in each case is
(A) 67 (B) 87 (C) 62 (D) 82
10. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?
(A) 4 (B) 10 (C) 15 (D) 16

11. The difference of two numbers is 1365. On dividing the larger number by the smaller, we get 6 as quotient and the 15 as remainder. What is the smaller number?

- (A) 240 (B) 270 (C) 295 (D) 360

(Value based)

12. The school canteen charges Rs. 20 for lunch & Rs. 5 for milk each day. How much money will be charged in 5 days on these things?

- (A) Rs. 125 (B) Rs. 25 (C) Rs. 75 (D) Rs. 100

13. The length, breadth and height of a room are 8 m 25 cm, 6 m 75 cm and 4 m 50 cm respectively. The longest rod which can measure the three dimensions of the room exactly is

- (A) 60 cm (B) 65 cm (C) 70 cm (D) 75 cm

(Logical Reasoning)

14. If the first three letters of the word 'ANTHROPOLOGISTS' are written in reverse order, followed by the next four letters written in reverse order, followed by eight letter written in reverse order, which letter will come exactly in the middle?

- (A) T (B) H (C) S (D) O

15. In the given series, how many pairs of alternate numbers have a difference of 2?

6 4 1 2 2 8 7 4 2 1 5 3 8 6 2 1 7 1 4 1 3 2 8 6

- (A) One (B) Two (C) Three (D) Four

16. In a code language if POSE is coded as OQNPRTFD, then the word TYPE will be coded as

- (A) SUXZOQFD (B) SUXZQOFD (C) SUXZOQDF (D) SUXZQODE

17. Get odd man out:

- (A) Fragrance (B) Smell (C) Aroma (D) A Foul smell

18. A man said to a lady, "Your mother's husband's sister is my aunt". How is that lady related to that man?

- (A) Daughter (B) Sister (C) Mother (D) Aunt

19. 6, 7, 9, 13, 21, ____

- (A) 25 (B) 29 (C) 37 (D) 32

20. Arrange in a sequence form: 1) Table 2) Tree 3) Wood 4) Seed 5) Plant

- (A) 4, 5, 3, 2, 1, (B) 4, 5, 2, 3, 1 (C) 1, 3, 2, 4, 5 (D) 1, 2, 3, 4, 5