RAMAGYA SCHOOL, NOIDA

OLYMPIAD WORKSHEET

CLASS – VI

(Concept based)

1. If 1 is added to the greatest 7 digit number, it will be equal to

(A) 10 Thousand (B) 1 lakh (C) 10 lakh (D) 1 crore

2. Which of the following letters does not have the vertical line of symmetry?

(A) M (B) H (C) E (D) V

3. Number of lines passing through five points such that no three of them are collinear is

(A) 8 (B) 10 (C) 5 (D) 20

4. 13.572 correct to the tenth place is _____

(A) 14.5 (B) 10 (C) 13.57 (D) 13.6

(Application based)

5. Keeping the place of 6 in the number 6350947 same, the smallest number obtained by rearranging other digits is

(A) 6975430 (B) 6043579 (C) 6034579 (D) 6034759

6. Swati, Meera and Harshita divided 11.775 kg of wheat flour equally among themselves. Swati used all her wheat flour equally to bake 5 chocolate cakes. How much wheat flour did each cake need?

(A) 3.92 kg (B) 0.665 kg (C) 0.875 kg (D) 0.785 kg

7. 280 oranges are divided among some boys and girls whose total number is 50 so that each boy gets 5 oranges and each girl get 7 oranges. The number of girls is

(A) 30 (B) 35 (C) 15 (D) 20

8. The sum of four consecutive integers is 1290. The greatest of them is?

(A) 321 (B) 322 (C) 323 (D) 324

9. the product of successor and predecessor of 999 is

(A) 999000 (B) 998000 (C) 989000 (D) 1998

HOTS

10. The numbers 13 and 31 are the prime numbers. Both these numbers have same digit 1 & 3. Find such pairs of prime numbers up to 100.

(A) 2 (B) 8 (C) 3 (D) 4

11. 3 bells beep at an interval of 12, 20, and 35 minutes. If they beep together at 10 a.m., then they will again beep together at:

(A) 12 pm (B) 1 pm (C) 4 pm (D) 5 pm

12. A Machine, on an average, Manufactures 2825 screws a day. How many screws did it manufacture in the month of January?

(A) 84750 (B) 87575 (C) 681925 (D) 79100

13. A polygon has prime number of sides. Its number of sides is equal to the sum of the two least consecutive primes. The number of diagonals of the polygon is

(A) 4 (B) 5 (C) 7 (D) 10

(Value based)

14. Population of a town in the year 2010 was 2,00,000. In the year 2015, it was found to be increased by 10359. What was the population of the town in 2015

(A) 220359 (B) 210000 (C) 210359 (D) 20359

15. The greatest length of the scale that can measure exactly 30 cm, 90 cm, 1 m 20 cm and 1 m 35 cm lengths is

(A) 5 cm (B) 10 cm (C) 15 cm (D) 30 cm

Logical Reasoning

16. The sum of the ages of 4 childern born at the interval of the 3 years each is 58 years. What is the age of the youngest child?

(A) 4 Years (B) 6 Years (C) 8 Years (D) 10 Years

17. How many 8's are present in the following sequence of numbers which are exactly divisible by both its preceding and following numbers?

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

(A) 5 (B) 6 (C) 2 (D) less than 4

18. If Reena says, “Anjali's father Raman is the only son of my father-in-law Ramanand”, then how is Piyu, who is the sister of Anjali, related to Ramanand ?

(A) Wife (B) Sister (C) Daughter (D) Grand Daughter

19. Identify the missing number at the end of the series.

W, S, Q, M, ?

(A) I (B) J (C) K (D) L

20. At what angle is formed between the minutes hand and seconds’ hand of clock if they are 25 minutes apart?

(A) 135^o (B) 110^o (C) 120^o (D) 150^o