RAMAGYA SCHOOL, NOIDA

VII/MATHEMATICS/2017-18

OLYMPIAD PRACTICE WORKSHEET

(Concept)

1. Gaurav earns Rs 1,200 in 10 days. In 18 days he will earn:
   a. Rs 2,160
   b. Rs 2,000
   c. Rs 1,960
   d. Rs 2,250

2. If a nine is added to a number, the result is 36. The number is
   a. 25
   b. 26
   c. 27
   d. 28

3. The least number to be added to 1,330 to get a number easily divisible by 43 is
   a. 46
   b. 1
   c. 7
   d. 3

4. The sides of a triangular field are 15m,20m and 25m.The total distance travelled by the moving along its boundary, in making three complete rounds is
   a. 150m
   b. 165m
   c. 180m
   d. 200m

5. The least number should be added to 1678 so that 23 exactly divides the sum?
   a. 1
   b. 2
   c. 3
   d. 4

6. Ramesh earned Rs 60,000as income tax. The ratio of income tax to income is
   a. 1:6
   b. 1:10
   c. 6:1
   d. 10:1

(Application)

7. Sum of $3\frac{3}{4}$ and $\frac{3}{4}$ is
   a. $3\frac{6}{8}$
   b. $\frac{18}{4}$
   c. $3\frac{6}{4}$
   d. $\frac{3}{5}$

8. At a school, there are 704 desks to place into 22 classrooms. If the same number of desks is placed in each classroom, how many desks will be in each room?
   a. 32
   b. 34
   c. 42
   d. 44

9. The cost of ploughing a field at the rate of Rs 4 per m sq is Rs 1,024. If the breadth of the field is 8m, then its length is:
   a. 12m
   b. 16m
   c. 32m
   d. 644m

10. Find x if 15:60::x:20
    a. 4
    b. 5
    c. 6
    d. 8

11. The cost of 3 dozen oranges is Rs 90. How many oranges can be purchased for Rs 17.50?
    a. 7
    b. 5
    c. 6
    d. 4

12. Niharika earns Rs 14579 each month by selling books. Which of the following is the best estimate in nearest thousands, she earns in 2 months ?
    a. Rs 30,000
    b. Rs 20,000
    c. Rs 35,000
    d. Rs 30,800

13. In a triangle ABC, E is the mid point of AC and G is the centroid of the triangle then BE:GE
    a. 1:2
    b. 2:1
    c. 3:1
    d. 1:3

14. The third proportional to 2 and 8 is:
    a. 1
    b. 4
    c. 16
    d. 32

15. Ramesh scored 15 marks in math which is twice as much as in English. Find the total marks scored by her.
    a. 22
    b. 22.5
    c. 21
    d. 21.5

16. Solve $9\frac{2}{3} + \ - \ - - = 19$
    a. $3\frac{1}{4}$
    b. $3\frac{1}{5}$
    c. $3\frac{1}{3}$
    d. $3\frac{1}{2}$

17. The distance travelled by Roy and Akthar in an hour is 8 km and 6 km. Find the ratio of speed of Roy to the speed of Akhtar.
    a. 3.4
    b. 4:3
    c. 6:5
    d. 1:2

18. Solve: |7-4|
    a. -3
    b. –(-3)
    c. 3
    d. (-2)

19. What factor of an hour is 24 minutes?
    a. $\frac{24}{60}$
    b. $\frac{2}{5}$
    c. $\frac{12}{30}$
    d. $\frac{6}{5}$

20. 24679x92+24679x8 = ?
    a. 22467900
    b. 2467900
    c. 246790
    d. 24679