



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

(Concept)

1. If a nine is added to a number, the result is 36. The number is
 - a. 25
 - b. 26
 - c. 27
 - d. 28
2. 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
3. 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
4. The least number should be added to 1678 so that 23 exactly divides the sum?
 - a. 1
 - b. 2
 - c. 3
 - d. 4
5. Ramesh earned Rs 60,000 as income tax. The ratio of income tax to income is
 - a. 1:6
 - b. 1:10
 - c. 6:1
 - d. 10:1

(Application)

6. 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. $\frac{3}{5}$

7. 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?
- 32
 - 34
 - 42
 - 44
8. 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:
- 12m
 - 16m
 - 32m
 - 644m
9. Find x if $15:60::x:20$
- 4
 - 5
 - 6
 - 8
10. The cost of 3 dozen oranges is Rs 90. How many oranges can be purchased for Rs 17.50?
- 7
 - 5
 - 6
 - 4
11. 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 ?
- Rs 30,000
 - Rs 20,000
 - Rs 35,000
 - Rs 30,800
12. In a triangle ABC, E is the mid point of AC and G is the centroid of the triangle then BE:GE
- 1:2
 - 2:1
 - 3:1
 - 1:3
13. The third proportional to 2 and 8 is:
- 1
 - 4
 - 16
 - 32

14. Ramesh scored 15 marks in math which is twice as much as in English. Find the total marks scored by her.
- 22
 - 22.5
 - 21
 - 21.5
15. Solve $9\frac{2}{3} + \dots = 19$
- $3\frac{1}{4}$
 - $3\frac{1}{5}$
 - $3\frac{1}{3}$
 - $3\frac{1}{2}$
16. The distance travelled by Roy and Akhtar in an hour is 8 km and 6 km. Find the ratio of speed of Roy to the speed of Akhtar.
- 3.4
 - 4:3
 - 6:5
 - 1:2
17. Solve: $17-41$
- 3
 - $-(-3)$
 - 3
 - (-2)
18. What factor of an hour is 24 minutes?
- $\frac{24}{60}$
 - $\frac{2}{5}$
 - $\frac{12}{30}$
 - $\frac{6}{5}$
19. $24679 \times 92 + 24679 \times 8 = ?$
- 22467900
 - 2467900
 - 246790
 - 24679
20. How many three digit numbers are there between 86 and 407?
- 307
 - 308
 - 300
 - 301