



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

Concept

1. $\frac{3}{4}$ as rate per cent is
a. 7.5% b. 75% c. 0.75% d. none of these
2. Expressed as decimals $\frac{1}{4}$
a. 0.002 b. 0.25 c. 1.2 d. 0.125
3. The ratio 2:5 as the per cent is
a. 4% b. 0.4% c. 40% d. 14%
4. If $x\%$ of 79=9, then the value of x is
a. 16 b. 14 c. 12 d. 8

Application

5. If $2A=3B=4C$ then $A:B:C=?$
a. 2:3:4 b. 3:4:6 c. 4:3:2 d. 6:4:3
6. If $\frac{A}{2} = \frac{B}{3} = \frac{C}{4}$ then $A:B:C=?$
a. 2:3:4 b. 4:3:2 c. 3:2:4 d. none of these
7. If $(x:y) = 3:4$, then $(7x+4y):(7x-3y)=?$
a. 7:3 b. 5:2 c. 11:3 d. 14:9
8. What least number must be subtracted from each term of the ratio 15:19 to make the ratio 3:4?
a. 3 b. 5 c. 6 d. 9
9. If Rs 840 is divided between A and B in the ratio 4:3, then B's share is
a. Rs 480 b. Rs 360 c. Rs 320 d. Rs 540
10. The ages of A and B are in the ratio 5:2. After 5 years, their ages will be in the ratio 15:7. The present age of A is
a. 48 years b. 36 years c. 40 years d. 35 years
11. The boys and girls in a school are in the ratio 9:5. If the number of girls is 320, then the total strength of the school is
a. 840 b. 896 c. 920 d. 576
12. If 4.5 m of a uniform rod weighs 17.1 kg, what is the weight of 12 m of such a rod?
a. 51.2 kg b. 53kg c. 45.6 kg d. 56 kg

HOTS

13. In a map, 0.8 cm represents 8.8 km. How much distance will be represented by 80.5 cm?
a. 805 Km b. 855.5 Km c. 644 Km d. none of these
14. In a race, Raghu covers 5 Km in 20 minutes, how much distance will he cover in 50 minutes?
a. 10.5 km b. 12 km c. 12.5 km d. 13.5 km
15. A garrison of 500 men had provisions for 24 days. However, a reinforcement of 300 men arrived. The food will now last for
a. 18 days b. $17\frac{1}{2}$ days c. 16 days d. 15 days
16. In a map, 1 cm represents 8 km. How much distance will be represented by 80.5 cm?
a. 640 km b. 642 Km c. 644 km d. 648 km
17. If 16 men can reap a field in 30 days, in how many days will 20 men reap the same field?
a. 24 days b. 25 days c. $10\frac{2}{3}$ days d. $37\frac{1}{2}$ days
18. 45 cows can graze a field in 12 days. How many cows will graze the same field in 9 days?
a. 60 days b. $38\frac{3}{4}$ days c. 54 days d. none of these
19. 6 dozen eggs are brought for Rs 108. How much will 108 eggs cost?
a. Rs 171 b. Rs 162 c. Rs 153 d. Rs 180
20. If 21 cows eat as much as 15 buffaloes, how many cows will eat as much as 35 buffaloes?
a. 45 b. 49 c. 56 d. 54