

Subject: - Mathematics

PRACTICE PAPER (MCQ)

CBSE-8th

Topic: - Variations

1. The time it takes to drive between two cities varies inversely as speed. Seema drives in 3.5 hours at 60 km/hr. How long will this journey takes if she drives at a speed of 70 km/hr?

Ans. (b)

- a) 2.3 hour b) 3 hour c) 2.6 hour d) 4.1 hour

2. 12 men can do a piece of work in 24 days. In how many days will the work be completed if 8 men are engaged to do this work?

Ans. (b)

- a) 28 b) 36 c) 48 d) 52

3. A garrison of 500 men had provisions for 27 days. After three days, a reinforcement of 300 men arrives. For how many more days will the remaining food last now?

Ans. (a)

- a) 15 days b) 16 days c) $17\frac{1}{2}$ days d) 18 days

4. 2 pipes A and B can fill a tank in 20 minutes and 30 minutes respectively. If both the pipes are used together, how long will it take to fill the tank?

Ans. (a)

- a) 12 minutes b) 15 minutes c) 25 minutes d) 50 minutes

5. In a mess, there was enough food for 200 students for 20 days. If 50 new students joined them, then the food will last for: -

Ans. (b)

- a) 15 days b) 16 days c) 17 days d) 18 days

6. A photograph of bacteria is enlarged 1 lakh times attains a length of 5 cm, then actual length of the bacteria is: -

Ans. (d)

- a) 0.00005 cm b) 5×10^{-5} cm c) 5×10^{-7} m d) All of these

7. If 5 pipes can fill the tank in 1 hour then 4 pipes will fill the tank in:

Ans. (a)

- a) 75 minutes b) 70 minutes c) 65 minutes d) None of these

8. the rate of working of A and B are in the ratio of 3 : 4. The number of days taken by them to finish the work will be in the ratio: - **Ans. (c)**

- a) 3 : 1 b) 3 : 4 c) 4 : 3 d) 1 : 3

9. Given two quantities x and y . If increase in x cause a proportionate decrease in y (and vice versa) such that their product remain constant then x and y are said to be: - **Ans. (c)**

- a) Independent b) Directly related c) Inversely related d) None of these

10. If 20 men can build a wall 56 m long in 6 days. What length of a similar wall can be built by 35 men in 3 days? **Ans. (b)**

- a) 52 m b) 49 m c) 42 m d) 36 m