Mathematics

1. Express a speed of 36 kmph in meters per second? A. 10 mps B. 12 mps C. 14 mps D. 17 mps **Answer:** Option A 2. Express 25 mps in kmph? A. 15 kmph B. 99 kmph C. 90 kmph D. None Answer: Option C 3. The speed of a train is 90 kmph. What is the distance covered by it in 10 minutes? A. 15 kmph B. 12 kmph C. 10 kmph D. 5 kmph **Answer:** Option A 4. A car covers a distance of 624 km in 6 ½ hours. Find its speed?

A. 104 kmph

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B. 140 kmph C. 104 mph D. 10.4 kmph **Answer:** Option A 5. A and B complete a work in 6 days. A alone can do it in 10 days. If both together can do the work in how many days? A. 3.75 days B. 4 days C. 5 days D. 6 days **Answer:** Option A 6. A can do a piece of work in 4 days. B can do it in 5 days. With the assistance of C they completed the work in 2 days. Find in how many days can C alone do it? A. 10 days B. 20 days C. 5 days D. 4 days **Answer: Option B** 7. A, B and C can do a piece of work in 24, 30 and 40 days respectively. They start the work together but C leaves 4 days before the completion of the work. In how many days is the work done? A. 15 days

B. 14 days

C. 13 days
D. 11 days
Answer: Option D
8. 5 men and 12 boys finish a piece of work in 4 days, 7 men and 6 boys do it in 5 days. The ratio between the efficiencies of a man and boy is?
A. 1:2
B. 2:1
C. 2:3
D. 6:5
Answer: Option D
9. A and B can finish a work in 16 days while A alone can do the same work in 24 days. In how many days B alone will complete the work?
A. 56
B. 48
C. 36
D. 58
Answer: Option B
10. Some persons can do a piece of work in 12 days. Two times the number of these people will do half of that work in?
A. 3 days
B. 4 days
C. 6 days
D. 12 days

Answer: Option A

- 11. What number has a 5:1 ratio to the number 10?
- A. 42
- B. 50
- C. 55
- D. 62

Answer: Option B

- 12. Two same glasses are respectively 1/4th 1/5th full of milk. They are then filled with water and the contents mixed in a tumbler. The ratio of milk and water in the tumbler is?
- A. 3:8
- B. 9:31
- C. 8:21
- D. 10:27

Answer: Option B

- 13. A and B entered into a partnership investing Rs.25000 and Rs.30000 respectively. After 4 months C also joined the business with an investment of Rs.35000. What is the share of C in an annual profit of Rs.47000?
- A. Rs.18000
- B. Rs.15000
- C. Rs.17000
- D. Rs.14000

Answer: Option D

14. In how many years does a sum of Rs. 5000 yield a simple interest of Rs. 16500 at 15% p.a.?
A. 22
B. 24
C. 25
D. 23
Answer: Option A
15. The radius of a circle is increased by 1%. Find how much % does its area increases?
A. 1.01%
B. 5.01%
C. 3.01%
D. 2.01%
Answer: Option D