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

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