

A toy train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the toy train?

- A. 120 metres
- B. 180 metres
- C. 324 metres
- D. 150 metres

Two, trains, one from Alipur to Falakta and the other from Falakata to Alipur, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is:

- A. 2 : 3
- B. 4 : 3
- C. 6 : 7
- D. 9 : 16

Answer: B

The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is:

- A. 2.3 m
- B. 4.6 m
- C. 7.8 m
- D. 9.2 m

Answer: D

The angle of elevation of the sun, when the length of the shadow of a tree 3 times the height of the tree, is:

- A. 30°
- B. 45°
- C. 60°
- D. 90°

Mr. Arup invested an amount of Rs. 13,900 divided in two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in 2 years be Rs. 3508, what was the amount invested in Scheme B?

- A. Rs. 6400
- B. Rs. 6500
- C. Rs. 7200
- D. Rs. 7500

Answer: A

Raya took a loan of Rs. 1200 with simple interest for as many years as the rate of interest. If she paid Rs. 432 as interest at the end of the loan period, what was the rate of interest?

- A. 3.6
- B. 6
- C. 18
- A. None of these

Answer: Option B

2 students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

- A. 39, 30
- B. 41, 32
- C. 42, 33
- D. 43, 34

Answer: C

Debasish went to the stationers and bought things worth Rs. 25, out of which 30 paise went on sales tax on taxable purchases. If the tax rate was 6%, then what was the cost of the tax free items?

- A. Rs. 15
- B. Rs. 15.70
- C. Rs. 19.70

D. Rs. 20

Answer: C

Running at the same constant rate, 6 identical machines can produce a total of 270 bottles per minute. At this rate, how many bottles could 10 such machines produce in 4 minutes?

A. 648

B. 1800

C. 2700

D. 10800

Answer: B

If $\log 27 = 1.431$, then the value of $\log 9$ is:

A. 0.934

B. 0.945

C. 0.954

D. 0.958

Answer: C

Arup buys Rs. 20 shares paying 9% dividend. Arup wants to have an interest of 12% on his money. The market value of each share is:

A. Rs. 12

B. Rs. 15

C. Rs. 18

D. Rs. 21

Answer: B

If Rs. 10 be allowed as true discount on a bill of Rs. 110 due at the end of a certain time, then the discount allowed on the same sum due at the end of double the time is:

A. Rs. 20

B. Rs. 21.81

C. Rs. 22

D. Rs. 18.33

The simple interest and the true discount on a certain sum for a given time and at a given rate are Rs. 85 and Rs. 80 respectively. The sum is:

A. Rs. 1800

B. Rs. 1450

C. Rs. 1360

D. Rs. 6800

Answer: C

A train covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 hours, it must travel at a speed of:

A. 300 kmph

B. 360 kmph

C. 600 kmph

D. 720 kmph

Answer: D

Aamir is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph, he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?

A. 8 kmph

B. 11 kmph

C. 12 kmph

D. 14 kmph

Answer: C

It takes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the cars is:

A. 2 : 3

B. 3 : 2

C. 3 : 4

D. 4 : 3

Answer: C

Ram, Sam & Jodu can do a piece of work in 20, 30 and 60 days respectively. In how many days can Ram do the work if he is assisted by Sam and Jodu on every third day?

A. 12 days

B. 15 days

C. 16 days

D. 18 days

The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum (in Rs.) is:

A. 625

B. 630

C. 640

D. 650

Answer: A

Biswarupa, Satarupa & Sibani subscribe Rs. 50,000 for a business. Biswarupa subscribes Rs. 4000 more than Satarupa and Satarupa Rs. 5000 more than Sibani. Out of a total profit of Rs. 35,000, Biswarupa receives:

A. Rs. 8400

B. Rs. 11,900

C. Rs. 13,600

D. Rs. 14,700

Answer: D

The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?

A. 4 years

- B. 8 years
- C. 10 years
- D. None of these

Answer: A

The ratio between the perimeter and the breadth of a rectangle is 5 : 1. If the area of the rectangle is 216 sq. cm, what is the length of the rectangle?

- A. 16 cm
- B. 18 cm
- C. 24 cm
- D. None of these

Answer: B

Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is:

- A. 9
- B. 11
- C. 13
- D. 15

Answer: D

A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. The number is:

- A. 145
- B. 253
- C. 370
- D. 352

Answer: B

If $2994 \div 14.5 = 172$, then $29.94 \div 1.45 = ?$

- A. 0.172

B. 1.72

C. 17.2

D. 172

Answer: C

Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

A. 2 : 5

B. 3 : 5

C. 4 : 5

D. 6 : 7

E. None of these

Answer: C

If 40% of a number is equal to two-third of another number, what is the ratio of first number to the second number?

A. 2 : 5

B. 3 : 7

C. 5 : 3

D. 7 : 3

Answer: C

The banker's discount on Rs. 1600 at 15% per annum is the same as true discount on Rs. 1680 for the same time and at the same rate. The time is:

A. 3 months

B. 7 months

C. 6 months

D. 8 months

E. None of these

Answer: E