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

120 metres

180 metres

324 metres

150 metres

2.

A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is:

45 km/hr

50 km/hr

54 km/hr

55 km/hr

3.

The length of the bridge, which a train 130 metres long and travelling at 45 km/hr can cross in 30 seconds, is:

200 m

225 m

245 m

250 m

4.

Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:

1 : 3

3 : 2

3 : 4

None of these

5.

A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?

120 m

240 m

300 m

None of these

1.

A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?

3.6

7.2

8.4

10

2.

An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1https://www.indiabix.com/_files/images/aptitude/1-div-2by3.gif hours, it must travel at a speed of:

300 kmph

360 kmph

600 kmph

720 kmph

3.

If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is:

50 km

56 km

70 km

80 km

4.

A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is:

100 kmph

110 kmph

120 kmph

130 kmph

5.

Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?

9

10

12

20

1.

Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is:

173 m

200 m

273 m

300 m

2.

A man standing at a point P is watching the top of a tower, which makes an angle of elevation of 30° with the man's eye. The man walks some distance towards the tower to watch its top and the angle of the elevation becomes 60°. What is the distance between the base of the tower and the point P?

43 units

8 units

12 units

Data inadequate

None of these

3.

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:

2.3 m

4.6 m

7.8 m

9.2 m

4.

An observer 1.6 m tall is 203 away from a tower. The angle of elevation from his eye to the top of the tower is 30°. The height of the tower is:

21.6 m

23.2 m

24.72 m

None of these

5.

From a point P on a level ground, the angle of elevation of the top tower is 30°. If the tower is 100 m high, the distance of point P from the foot of the tower is:

149 m

156 m

173 m

200 m

1.

A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is :

|  |
| --- |
| 1 |
| 4 |
| 1 |
| 10 |

|  |
| --- |
| 7 |
| 15 |
| 8 |
| 15 |

2.

A can lay railway track between two given stations in 16 days and B can do the same job in 12 days. With help of C, they did the job in 4 days only. Then, C alone can do the job in:

|  |  |  |
| --- | --- | --- |
| 9 | 1 | days |
| 5 |
| 9 | 2 | days |
| 5 |

|  |  |  |
| --- | --- | --- |
| 9 | 3 | days |
| 5 |

10

3.

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

12 days

15 days

16 days

18 days

4.

A is thrice as good as workman as B and therefore is able to finish a job in 60 days less than B. Working together, they can do it in:

20 days

|  |  |  |
| --- | --- | --- |
| 22 | 1 | days |
| 2 |

25 days

30 days

5.

A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

Rs. 375

Rs. 400

Rs. 600

Rs. 800

Alfred buys an old scooter for Rs. 4700 and spends Rs. 800 on its repairs. If he sells the scooter for Rs. 5800, his gain percent is:

|  |  |  |  |
| --- | --- | --- | --- |
| 4 | 4 | % | |
| 7 |
| 5 | 5 | | % |
| 11 | |

10%

12%

2.

The cost price of 20 articles is the same as the selling price of *x* articles. If the profit is 25%, then the value of *x* is:

15

16

18

25

3.

If selling price is doubled, the profit triples. Find the profit percent.

|  |  |
| --- | --- |
| 66 | 2 |
| 3 |

100

|  |  |
| --- | --- |
| 105 | 1 |
| 3 |

120

4.

In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?

30%

70%

100%

250%

5.

A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?

3

4

5

6