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Class 7 - ICSE

MATHEMATICS

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Speed, Distance and Time

Daily Practice Problems



Question 1:

Which of the following relation between speed, distance and time is true?

[Level: Easy]

(a) Speed = Distance \times time

(b) Speed = $\frac{\text{Time}}{\text{Distance}}$

(c) Time = $\frac{\text{Distance}}{\text{Speed}}$

(d) Distance = $\frac{\text{Speed}}{\text{Time}}$

Question 2:

A boy walks 200 metres in 2 minutes. Find his speed in $\frac{m}{min}$ ($m \text{ min}^{-1}$)? [Level:

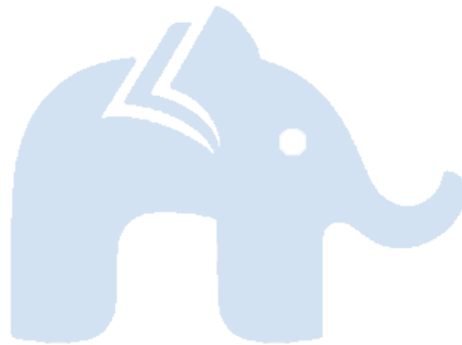
Easy]

(a) 100 m min^{-1}

(b) 120 m min^{-1}

(c) 150 m min^{-1}

(d) 170 m min^{-1}



Question 3:

If an object covers a distance of 500 m with a speed of 25 ms^{-1} , Calculate the time taken by an object? [Level: Easy]

(a) 40 s

(b) 20 s

(c) 10 s

(d) 30 s

Question 4:

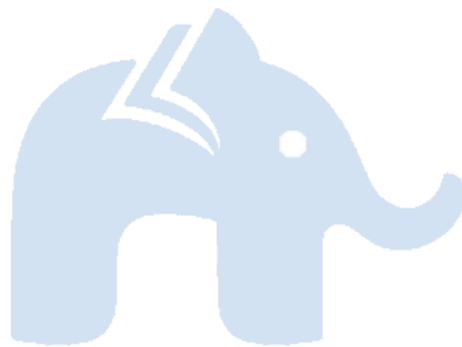
A man covers a distance of 3.6 km in 18 min. Find his distance covered by him in three hours? [Level: Easy]

- (a) 35 km
- (b) 32 km
- (c) 30 km
- (d) 36 km

Question 5:

One bus is travelled at a speed of 36 km h^{-1} , Calculate the speed in m s^{-1} of scooter? [Level: Easy]

- (a) 5 m s^{-1}
- (b) 10 m s^{-1}
- (c) 20 m s^{-1}
- (d) 15 m s^{-1}



Question 6:

A bus covered a distance of 3.6 km is covered in 20 minutes. Find the speed in km per hour (km h^{-1})? [Level: Moderate]

- (a) 10.8 km h^{-1}
- (b) 9.8 km h^{-1}
- (c) 11.8 km h^{-1}
- (d) 8.8 km h^{-1}

Question 7:

A certain distance is covered in 20 minutes with a speed of 15 km h^{-1} . If the same distance is covered in 15 minutes. Find the increase in speed. [Level: Difficult]

Class 7 Mathematics ICSE | Speed, Distance and Time | DPP Questions

- (a) 3 km h^{-1}
- (b) 4 km h^{-1}
- (c) 5 km h^{-1}
- (d) 6 km h^{-1}

Question 8:

A journey is covered in 2 hours with a speed of 60 km h^{-1} . What must be the speed, if the same journey is to be completed in 5 hour? [Level: Moderate]

- (a) 25 km h^{-1}
- (b) 20 km h^{-1}
- (c) 24 km h^{-1}
- (d) 28 km h^{-1}

Question 9:

Distance between two stations A and B is 80 km. Manoj goes from station A to station B with a certain speed and returns back to station A, with the same speed, in 5 hours. Find the speed of Manoj? [Level: Difficult]

- (a) 30 km h^{-1}
- (b) 31 km h^{-1}
- (c) 32 km h^{-1}
- (d) 35 km h^{-1}

Question 10:

A car goes from place A to place B through places P and Q. The car goes from A to P, a distance of 100 km in 2 h, then from P to Q, a distance of 150 km in 2 h and finally from Q to B, a distance of 100 km in 1 h. Calculate the average speed?

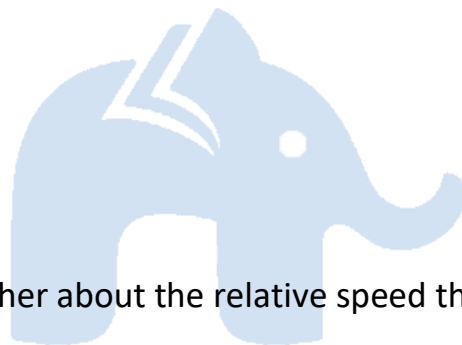
[Level: Moderate]

- (a) 20 km per hour
- (b) 30 km per hour
- (c) 50 km per hour
- (d) 40 km per hour

Question 11:

A car covers 250 km, 120 km and 50 km with the speeds 50 km/hr, 40 km/hr and 25 km/hr respectively. Find its average speed on the whole journey? [Level: Moderate]

- (a) 42 km h^{-1}
- (b) 40 km h^{-1}
- (c) 45 km h^{-1}
- (d) 44 km h^{-1}



Question 12:

Aadhya asked from teacher about the relative speed that when the two objects are moving in opposite directions, what is relative speed of the objects? [Level: Moderate]

- (a) sum of their speeds
- (b) subtraction of their speeds
- (c) multiplication of their speeds
- (d) division of their speeds

Question 13:

The distance between the two moving objects at a given time is _____.

[Level: Moderate]

- (a) relative speed between the objects x distance

- (b) average speed between the objects x time
- (c) relative speed between the objects x time
- (d) average speed between the objects x distance

Question 14:

Two boys start from the same place. One of them walks at 5 km per hour and the other at 8 km per hour. Find the distance between the boys at the end of 3 hours, if they walk in the same direction? [Level: Moderate]

- (a) 5.5 km
- (b) 2 km
- (c) 6 km
- (d) 5 km

Question 15:

A 400-metre-long train is running at a speed of 80 km hr^{-1} . Find the time taken by the train to cross a pole? [Level: Moderate]

- (a) 22 sec
- (b) 20 sec
- (c) 21 sec
- (d) 18 sec

Question 16:

A train passes over a 100 m long bridge in 10 sec. The length of the train is 50 m. The speed of the train is _____. [Level: Moderate]

- (a) 10 m s^{-1}
- (b) 30 m s^{-1}

(c) 15 m s^{-1}

(d) 12 m s^{-1}

Question 17:

A train passes over a 400 m long bridge. If the speed of the train is 30 m s^{-1} and the train takes 20 s to cross the bridge, then the length of the train is _____ . [Level: Difficult]

(a) 400 m

(b) 600 m

(c) 800 m

(d) 200 m

Question 18:

A train running at a speed of 36 km hr^{-1} crosses an electric pole in 6 seconds. What is the length of the train in metres? [Level: Moderate]

(a) 60 m

(b) 30 m

(c) 50 m

(d) 70 m

Question 19:

A train, 100 m long, takes one minute in crossing a tunnel 950 m long. Find the speed of the train? [Level: Moderate]

(a) 60 km h^{-1}

(b) 50 km h^{-1}

(c) 20 km h^{-1}

(d) 10 km h^{-1}

Question 20:

A train 200 m long crossed a platform 1000 m long in 1 minute. The speed of the train (in km h^{-1}) is? [Level: Moderate]

- (a) 72
- (b) 70
- (c) 64
- (d) 60

