

# Sample Questions with Answers

## Aptitude & Reasoning

Generated on April 04, 2026 at 4:46 PM

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### Question 1:

A train running at speed of 90 km/hr crosses the pole in 8 seconds. What is the length of the train.

- A) 124
- B) 172
- C) 200
- D) 342

#### [ANSWER] Answer & Explanation:

Length of train = speed \* Time speed =  $(90 * \frac{5}{18})\text{m/sec} = 25$  so length of train is  $25 * 8 = 200$

### Question 2:

A train length is 125 meter long which have a running speed of 45 km/hr. How much time it will take to cross the pole standing near a stations.

- A) 11 sec
- B) 10 sec
- C) 10 min
- D) 12 sec

#### [ANSWER] Answer & Explanation:

First Step Is find speed in m/sec. speed of train =  $(45 * \frac{5}{18})\text{m/sec} = (25/2)$  m/sec  
= 125 meter Time taken = Distance/velocity =  $(125 / (25/2)) = (125 * 2 / 25) = 10$  sec

### Question 3:

A train running speed is 132 km/hr and the length of train is 110 meters. Calculate the time how long it will pass the platform. The length of platform is 165 meters.

- A) 9.5 sec
- B) 2.5 sec
- C) 7.5 sec
- D) 8 sec

#### [ANSWER] Answer & Explanation:

Speed of train =  $(132 \times \frac{5}{18})$  m/sec =  $110/3$  m/sec Total covered distance =  $110 + 165 = 275$  m/sec Time  
Taken =  $(275 \times \frac{3}{110})$  sec =  $15/2$  sec = 7.5 sec

### Question 4:

A railway bridge length is 180 meter and a train cross the bridge in 20 seconds but take time 8 sec to cross a man standing on bridge. Find speed and length of the train.

- A) 120 m , 54kmph
- B) 120 m , 54 mph
- C) 120 m , 45 mph
- D) 120 m , 45 kmph

#### [ANSWER] Answer & Explanation:

Assume the length of train is  $x$  meters, So train covers  $x$  meter in 8 sec and  $(x+180)$  in 20 sec.  $(x/8) = ((x+180)/20)$   $20x = 8(x+180)$   $x = 120$  length of train is 120 meter. speed of train is =  $120/8$  m/sec =  $15 \times 18/5$  kmph = 54 kmph  
 $x = 120$  length of train is 120 meter. speed of train is =  $120/8$  m/sec =  $15 \times 18/5$  kmph = 54 kmph  
= 54 kmph m/sec = m/sec =  $(15 \times 18/5)$  kmph = 54 km

### Question 5:

A train running speed is 45 km/hr and the length of train is 365 meter. In how long it will pass a bridge which is 170 meter long.

- A) 40 sec
- B) 42 sec
- C) 42.8 sec
- D) 54 sec

#### [ANSWER] Answer & Explanation:

speed of train is 45 km/hr =  $(45 \times \frac{5}{18})$  m/sec = 25/2 m/sec total distance covered by train is  
=  $(170+365)$  = 535 meter time = distance/speed =  $(535 / (25/2))$  =  $(535 \times 2/25)$  = 42.8 sec.

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