

Sample Questions with Answers

Aptitude & Reasoning

Generated on January 19, 2026 at 9:11 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:

Lentgh of train = speed * Time speed = $(90 * 5/18)$ 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 = $(45 * 5/18)$ m/sec
= 125 meter Time taken = Distance/velocity = $(125/(25/2))$ =
 $=(25/2)$ m/sec Passing distance of pole
 $=(125*2/25) = 10$ 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:

$$\begin{aligned} \text{Speed of train} &= (132 * 5/18) \text{ m/sec} & &= 110/3 \text{ m/sec} \\ \text{Total covered distance} &= 110 + 165 = 275 \text{ m/sec} \\ \text{Time Taken} &= (275 * 3/110) \text{ sec} & &= 15/2 \text{ sec} = 7.5 \text{ sec} \end{aligned}$$



Question 4:

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

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

[ANSWER] Answer & Explanation:

$$\begin{aligned} \text{Assume the length of train is } x \text{ meters, So train covers } x \text{ meter in 8 sec and } (x+180) \text{ in 20 sec. } (x/8) &= ((x+180)/20) \\ 20x &= 8(x+180) \\ x &= 120 \text{ length of train is 120 meter. speed of train is } = 120/8 \text{ m/sec} & &= 15 * 18/5 \text{ kmph} \\ &= 54 \text{ kmph} \text{ m/sec} = \text{m/sec} = (15 * 18/5) \text{ kmph} = 54 \text{ kmph} \end{aligned}$$



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:

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

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