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Aptitude & Reasoning

Generated on November 05, 2026 at 2:36 AM

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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 =(25/2) m/sec Passing distance of pole = 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 lenght of train is 110 meters. Calculate the time how long it will passed 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 * 5/18)m/sec = 110/3 m/sec Totel covered distance = 110 + 165 = 275 m/sec Time Taken = (275 * 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 men standing on bridge. Find spped 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 * 18/5 kmph = 54 kmph m/sec = m/sec = (15 *18/5) kmph = 54 km

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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 * 5/18) m/sec = 25/2 m/sec total distance covered by trian is =(170+365) = 535 meter time = distance/speed = (535/(25/2)) = (535 * 2/25) = 42.8 sec.

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