

Sample Questions with Answers

Aptitude & Reasoning - Quantitative Aptitude

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Aptitude & Reasoning

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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 = $(90 * 5/18)$ 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
= 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. $(\frac{x}{8}) = (\frac{x+180}{20})$ $20x = 8(x+180)$ $x = 120$ length of train is 120 meter. speed of train is = $\frac{120}{8}$ m/sec = $15 \times \frac{18}{5}$ kmph = 54 kmph
 $\frac{120}{8}$ m/sec = m/sec = $(15 \times \frac{18}{5})$ 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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