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Exercise: Problems on Trains - General Questions

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- 1. A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train?
 - (A) 120 metres
 - **B** 180 metres
 - © 324 metres
 - 150 metres

Answer: Option (1)

Explanation:

Speed =
$$\left(60 \times \frac{5}{18}\right)$$
 m/sec = $\left(\frac{50}{3}\right)$ m/sec.

Length of the train = (Speed x Time).

∴ Length of the train = $\left(\frac{50}{3} \times 9\right)$ m = 150 m.









- 2. A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is:
 - **(A)** 45 km/hr
 - **B** 50 km/hr
 - © 54 km/hr
 - 1 55 km/hr

Answer: Option (B)

Explanation:

Speed of the train relative to man = $\left(\frac{125}{10}\right)$ m/sec

$$=$$
 $\left(\frac{25}{2}\right)$ m/sec.

$$= \left(\frac{25}{2} \times \frac{18}{5}\right) \text{km/hr}$$

= 45 km/hr.

Let the speed of the train be $x \in \mathbb{R}$ km/hr. Then, relative speed = (x - 5) km/hr.

$$\therefore x - 5 = 45 \implies x = 50 \text{ km/hr}.$$









- 3. The length of the bridge, which a train 130 metres long and travelling at 45 km/hr can cross in 30 seconds, is:
 - **(A)** 200 m
 - **B** 225 m
 - **©** 245 m
 - **(1)** 250 m

Answer: Option ©

Explanation:

Speed =
$$\left(45 \times \frac{5}{18}\right)$$
 m/sec = $\left(\frac{25}{2}\right)$ m/sec.

Time = 30 sec.

Let the length of bridge be x metres.

Then,
$$\frac{130 + x}{30} = \frac{25}{2}$$

$$\Rightarrow$$
 2(130 + \times) = 750

$$\Rightarrow x = 245 \text{ m}.$$

Video Explanation: https://youtu.be/M_d8WufJWKc









- 4. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:
 - **(A)** 1:3
 - **B** 3:2
 - **(c)** 3:4
 - None of these

Answer: Option (B)

Explanation:

Let the speeds of the two trains be x m/sec and y m/sec respectively.

Then, length of the first train = 27x metres,

and length of the second train = 17y metres.

$$\therefore \frac{27x + 17y}{x + y} = 23$$

$$\Rightarrow$$
 27 x + 17 y = 23 x + 23 y

$$\Rightarrow 4x = 6y$$

$$\Rightarrow \frac{x}{y} = \frac{3}{2}$$
.









- 5. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?
 - **(A)** 120 m
 - **B** 240 m
 - **©** 300 m
 - None of these

Answer: Option (B)

Explanation:

Speed =
$$\left(54 \times \frac{5}{18}\right)$$
 m/sec = 15 m/sec.

Length of the train = (15×20) m = 300 m.

Let the length of the platform be x metres.

Then,
$$\frac{x + 300}{36} = 15$$

$$\Rightarrow$$
 x + 300 = 540

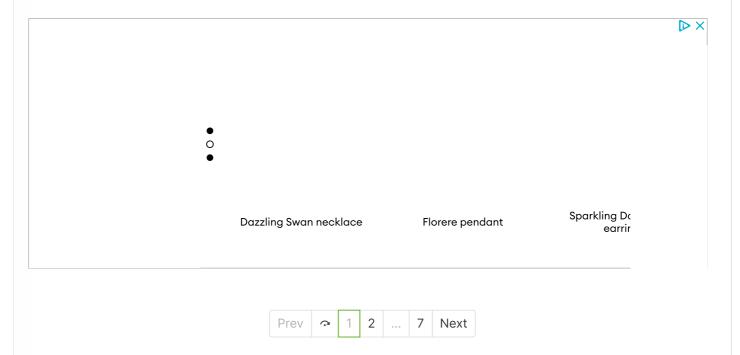
$$\Rightarrow$$
 x = 240 m.













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