







Aptitude :: Problems on Trains

Home » Aptitude » Problems on Trains » General Questions » Page 2 of 7

Exercise: Problems on Trains - General Questions

- ☐ Problems on Trains Formulas
- ☑ Problems on Trains General Questions
- ☐ Problems on Trains Data Sufficiency 1
- ☐ Problems on Trains Data Sufficiency 2
- ☐ Problems on Trains Data Sufficiency 3
- 6. A train 240 m long passes a pole in 24 seconds. How long will it take to pass a platform 650 m long?
 - **(A)** 65 sec
 - **B** 89 sec
 - **©** 100 sec
 - (1) 150 sec

Answer: Option (B)

Explanation:

Speed =
$$\left(\frac{240}{24}\right)$$
 m/sec = 10 m/sec.

∴ Required time =
$$\left(\frac{240 + 650}{10}\right)$$
 sec = 89 sec.









- 7. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is:
 - **(A)** 50 m
 - **(B)** 72 m
 - **©** 80 m
 - (1) 82 m

Answer: Option (A)

Explanation:

Let the length of each train be x metres.

Then, distance covered = 2x metres.

Relative speed = (46 - 36) km/hr

$$= \left(10 \times \frac{5}{18}\right) \text{m/sec}$$

$$=$$
 $\left(\frac{25}{9}\right)$ m/sec

$$\therefore \frac{2x}{36} = \frac{25}{9}$$

$$\Rightarrow 2x = 100$$

$$\Rightarrow x = 50.$$









- 8. A train 360 m long is running at a speed of 45 km/hr. In what time will it pass a bridge 140 m long?
 - (A) 40 sec
 - **B** 42 sec
 - **©** 45 sec
 - **(1)** 48 sec

Answer: Option (A)

Explanation:

Formula for converting from km/hr to m/s: $X \text{ km/hr} = \left(X \times \frac{5}{18}\right) \text{m/s}.$

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

Total distance to be covered = (360 + 140) m = 500 m.

Formula for finding Time =
$$\left(\frac{\text{Distance}}{\text{Speed}}\right)$$

∴ Required time =
$$\left(\frac{500 \times 2}{25}\right)$$
 sec = 40 sec.









- 9. Two trains are moving in opposite directions @ 60 km/hr and 90 km/hr. Their lengths are 1.10 km and 0.9 km respectively. The time taken by the slower train to cross the faster train in seconds is:
 - **(A)** 36
 - **B** 45
 - **©** 48
 - **(1)** 49

Answer: Option ©

Explanation:

Relative speed = (60+90) km/hr

$$= \left(150 \times \frac{5}{18}\right) \text{m/sec}$$

$$= \left(\frac{125}{3}\right) \text{m/sec.}$$

Distance covered = (1.10 + 0.9) km = 2 km = 2000 m.

Required time = $\left(2000 \times \frac{3}{125}\right)$ sec = 48 sec.









- 10. A jogger running at 9 kmph alongside a railway track in 240 metres ahead of the engine of a 120 metres long train running at 45 kmph in the same direction. In how much time will the train pass the jogger?
 - **(A)** 3.6 sec
 - **B** 18 sec
 - © 36 sec
 - **1** 72 sec

Answer: Option ©

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Explanation:

Speed of train relative to jogger = (45 - 9) km/hr = 36 km/hr.

$$= \left(36 \times \frac{5}{18}\right) \text{m/sec}$$

= 10 m/sec.

Distance to be covered = (240 + 120) m = 360 m.

 \therefore Time taken = $\left(\frac{360}{10}\right)$ sec = 36 sec.

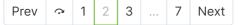














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- > Data Interpretation

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- > Verbal Test

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- > Logical
- > Verbal
- > Nonverbal

Programming

- > C Programming
- > C++
- > C#
- > Java

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- > GD
- > HR
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