

2IIM

CAT Blitzkrieg

ALL CAT QUESTIONS
FROM
SPEED, TIME
& DISTANCE

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1. CAT 2021 - Slot 1

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Two trains cross each other in 14 seconds when running in opposite directions along parallel tracks. The faster train is 160 m long and crosses a lamp post in 12 seconds. If the speed of the other train is 6 km/hr less than the faster one, its length, in m, is

- A. 184
- B. 180
- C. 190
- D. 192

2. CAT 2021 - Slot 2

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Two trains A and B were moving in opposite directions, their speeds being in the ratio 5 : 3. The front end of A crossed the rear end of B 46 seconds after the front ends of the trains had crossed each other. It took another 69 seconds for the rear ends of the trains to cross each other. The ratio of length of train A to that of train B is

- A. 2 : 3
- B. 2 : 1
- C. 5 : 3
- D. 3 : 2

3. CAT 2020 - Slot 1

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A train traveled at one-third of its usual speed and hence reached the destination 30 minutes after the scheduled time. On its return journey, the train initially traveled at its usual speed for 5 minutes but then stopped for 4 minutes for an emergency. The percentage by which the train must now increase its usual speed so as to reach the destination at the scheduled time is nearest to

- A. 58
- B. 67
- C. 50
- D. 61

4. CAT 2020 - Slot 1

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A straight road connects points A and B. Car 1 travels from A to B and Car 2 travels from B to A, both leaving at the same time. After meeting each other, they take 45 minutes and 20 minutes, respectively, to complete their journeys. If Car 1 travels at the speed of 60 km/hr, then the speed of Car 2, in km/hr, is

- A. 90
- B. 80
- C. 70
- D. 100

5. CAT 2020 - Slot 1

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Two persons are walking beside a railway track at respective speeds of 2 and 4 km per hour in the same direction. A train came from behind them and crossed them in 90 and 100 seconds, respectively. The time, in seconds, taken by the train to cross an electric post is nearest to

- A. 87
- B. 82
- C. 78
- D. 75

6. CAT 2020 - Slot 1

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Leaving home at the same time, Amal reaches office at 10:15 am if he travels at 8km/hr, and at 9:40 am if he travels at 15km/hr. Leaving home at 9:10 am, at what speed, in km/hr, must he travel so as to reach office exactly at 10 am?

- A. 12
- B. 11
- C. 13
- D. 14

7. CAT 2020 - Slot 2

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The distance from B to C is thrice that from A to B. Two trains travel from A to C via B. The speed of train 2 is double that of train 1 while traveling from A to B and their speeds are interchanged while traveling from B to C. The ratio of the time taken by train 1 to that taken by train 2 in travelling from A to C is

- A. 7 : 5
- B. 4 : 1
- C. 1 : 4
- D. 5 : 7

8. CAT 2020 - Slot 3

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Vimla starts for office every day at 9 am and reaches exactly on time if she drives at her usual speed of 40 km/hr. She is late by 6 minutes if she drives at 35 km/hr. One day, she covers two-thirds of her distance to office in one-thirds of her usual time to reach office, and then stops for 8 minutes. The speed, in km/hr, at which she should drive the remaining distance to reach office exactly on time is

- A. 28
- B. 29
- C. 26
- D. 27

9. CAT 2020 - Slot 3

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A and B are two railway stations 90 km apart. A train leaves A at 9:00 am, heading towards B at a speed of 40 km/hr. Another train leaves B at 10:30 am, heading towards A at a speed of 20 km/hr. The trains meet each other at

- A. 11 : 20 am
- B. 11 : 00 am
- C. 11 : 45 am
- D. 10 : 45 am

10. CAT 2019 - Slot 1

Two cars travel the same distance starting at 10:00 am and 11:00 am, respectively, on the same day. They reach their common destination at the same point of time. If the first car travelled for at least 6 hours, then the highest possible value of the percentage by which the speed of the second car could exceed that of the first car is

- A. 20
- B. 10
- C. 30
- D. 25

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