

2IIM

CAT

Blitzkrieg

**ALL CAT QUESTIONS
FROM
SPEED, TIME & DISTANCE-2**

How to **Blitzkrieg**

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12 PM**

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1. CAT 2019 - Slot 1

In a race of three horses, the first beat the second by 11 metres and the third by 90 metres. If the second beat the third by 80 metres, what was the length, in metres, of the racecourse?

[TITA]

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2. CAT 2019 - Slot 1

One can use three different transports which move at 10, 20, and 30 kmph, respectively. To reach from A to B, Amal took each mode of transport $\frac{1}{3}$ of his total journey time, while Bimal took each mode of transport $\frac{1}{3}$ of the total distance. The percentage by which Bimal's travel time exceeds Amal's travel time is nearest to

- A. 22
- B. 19
- C. 21
- D. 20



3. CAT 2019 - Slot 1

The wheels of bicycles A and B have radii 30 cm and 40 cm, respectively. While traveling a certain distance, each wheel of A required 5000 more revolutions than each wheel of B. If bicycle B traveled this distance in 45 minutes, then its speed, in km per hour, was

- A. 18π
- B. 16π
- C. 12π
- D. 14π



4. CAT 2019 - Slot 2

Two ants A and B start from a point P on a circle at the same time, with A moving clock-wise and B moving anti-clockwise. They meet for the first time at 10:00 am when A has covered 60% of the track. If A returns to P at 10:12 am, then B returns to P at

- A) 10:27 am
- B) 10:25 am
- C) 10:45 am
- D) 10:18 am

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5. CAT 2018 - Slot 1

Point P lies between points A and B such that the length of BP is thrice that of AP. Car 1 starts from A and moves towards B. Simultaneously, car 2 starts from B and moves towards A. Car 2 reaches P one hour after car 1 reaches P. If the speed of car 2 is half that of car 1, then the time, in minutes, taken by car 1 in reaching P from A is:

(TITA)

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6. CAT 2018 - Slot 1

Train T leaves station X for station Y at 3 pm. Train S, traveling at three quarters of the speed of T, leaves Y for X at 4 pm. The two trains pass each other at a station Z, where the distance between X and Z is three-fifths of that between X and Y. How many hours does train T take for its journey from X to Y?

[TITA]

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7. CAT 2018 - Slot 2

Points A, P, Q and B lie on the same line such that P, Q and B are, respectively, 100 km, 200 km and 300 km away from A. Cars 1 and 2 leave A at the same time and move towards B. Simultaneously, car 3 leaves B and moves towards A. Car 3 meets Car 1 at Q, and Car 2 at P. If each car is moving in uniform speed then the ratio of the speed of Car 2 to that of Car 1 is

- A. 1 : 4
- B. 2 : 9
- C. 1 : 2
- D. 2 : 7



8. CAT 2018 - Slot 2

On a long stretch of east-west road, A and B are two points such that B is 350 km west of A. One car starts from A and another from B at the same time. If they move towards each other, then they meet after 1 hour. If they both move towards east, then they meet in 7 hrs. The difference between their speeds, in km per hour, is
[TITA]

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9. CAT 2018 - Slot 2

Points A and B are 150 km apart. Cars 1 and 2 travel from A to B, but car 2 starts from A when car 1 is already 20 km away from A. Each car travels at a speed of 100 kmph for the first 50 km, at 50 kmph for the next 50 km, and at 25 kmph for the last 50 km. The distance, in km, between car 2 and B when car 1 reaches B is

[TITA]

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10. CAT 2020 - Slot 2

In a car race, car A beats car B by 45km, car B beats car C by 50 km, and car A beats car C by 90 km. The distance (in km) over which the race has been conducted is

- A. 550
- B. 475
- C. 500
- D. 450

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