



September Sprint for CAT 2025

Class 10

Time, Speed and Distance



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September Sprint Schedule

Date	Topic	Date	Topic	Date	Topic
01-Sep	Number System - 1	11-Sep	Games and Tournament	21-Sep	Algebra - 3
02-Sep	Arrangement	12-Sep	Odd One Out	22-Sep	Logical DI
03-Sep	Number System - 2	13-Sep	Chart Based DI - 3	23-Sep	Geometry - 1
04-Sep	Para Completion	14-Sep	Arithmetic - 4	24-Sep	Reading Comprehension - 3
05-Sep	Arithmetic - 1	15-Sep	Venn Diagram	25-Sep	Geometry - 2
06-Sep	Chart Based DI - 1	16-Sep	Reading Comprehension - 2	26-Sep	Quantitative Reasoning
07-Sep	Arithmetic - 2	17-Sep	Algebra - 1	27-Sep	Geometry - 3
08-Sep	Reading Comprehension - 1	18-Sep	Routes and Network	28-Sep	Parajumbles
09-Sep	Chart Based DI - 2	19-Sep	Algebra - 2	29-Sep	Misc. LR topics
10-Sep	Arithmetic - 3	20-Sep	Para Summary	30-Sep	Modern Maths





Pause the video, solve the question and then look at the solution!



$$\text{Distance} = \text{Speed} \times \text{Time}$$



$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$



$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$



A man covers a certain distance on a bicycle. Had he moved 3 kmph faster, he would have taken 40 minutes less. If he had moved 2 kmph slower, he would have taken 40 minutes more. Find the distance.

- A. 40 km
- B. 45 km
- C. 50 km
- D. 60 km



Every day I leave my home at a particular time, travel at a uniform speed and reach my college on time. Today also I left home at the same time but traveled at $\frac{3}{5}$ th of my regular speed over $\frac{1}{3}$ rd of the total distance. At what fraction of my regular speed should I travel over the rest of the distance so that I reach on time?

- A. 1.5 times
- B. 1.25 times
- C. 1.2 times
- D. 2 times



Car A starts with a speed of 30 km/h and increases its speed by 5 km/h after every hour. Another car B has a constant speed of 40 km/h. Both cars start from town P at the same time and travel in the same direction. They meet each other at town Q and continue their journey. Car A takes 4 hours to reach town R from Q. What is the distance (in km) between P and R?



Two cities, A and B, are 360 kilometres apart. A public transport corporation runs two buses between these cities. The first bus leaves City A at 7:30 AM, moving towards City B at a constant speed of 60 km/hr. The second bus leaves City B at 9:00 AM and travels towards City A at 75 km/hr. Midway between the two cities lies a toll gate, where every bus must halt for 12 minutes. Taking this delay into account, at what time do the two buses meet each other?

- A. 11:05 AM
- B. 11:11 AM
- C. 11:17 AM
- D. 11:20 AM



Two candles of the same height are lit at the same time. The first is consumed in 4 hours and the second in 3 hours. Assuming that each candle burns at a constant rate, in how many hours after being lighted was the first candle twice the height of the second?

- A. 2 hr
- B. 2 hr 15 min
- C. 2 hr 24 min
- D. 2 hr 30 min



It takes 15 seconds for a train traveling at 60 km/ hour to cross entirely another train half its length and traveling in the opposite direction at 48 km/hour. It also passes a bridge in 51 seconds. The length of the bridge is

- A. 550 m
- B. 450 m
- C. 500 m
- D. 600 m



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A cyclist drove one kilometer, with the wind in his back, in three minutes and drove the same way back, against the wind in four minutes. Assuming that the cyclist always puts constant force on the pedals, how long would it take him to drive one kilometer without wind?

- A. $3 \frac{1}{3}$
- B. $3 \frac{3}{7}$
- C. $3 \frac{1}{2}$
- D. $3 \frac{7}{12}$



Vikram goes from point A to point B while traveling upstream which takes 7 hours. While returning, his speed decreased due to fatigue and he was able to row only at half of his previous speed and took 6 hours to reach A from B. If the river is flowing at the speed of 8 km/hr, what is the original rowing speed of Vikram?

- A. 20 km/h
- B. 26 km/h
- C. 18 km/h
- D. 24 km/h



Two persons are climbing up on two moving escalators which have 120 steps each. The ratio of 1st person's speed to that of 1st escalator is 2:3 (steps). The ratio of the 2nd person's speed to that of the 2nd escalator is 3:5 (steps). Find the total number of steps they both have taken together.

- A. 93
- B. 85
- C. 82
- D. 80



Sajid takes 10 seconds to reach the top of an escalator taking 25 steps by himself and the rest is done by the escalator. Sanjay takes the same escalator and takes 15 seconds to reach top taking 15 steps by himself. What is the speed of the escalator (in steps per second)?

- A. 1
- B. 2
- C. 3
- D. 4



On a moving escalator, it takes me 20 steps to reach the top but if I decrease my speed to one-fourth of my original speed, it takes me only 8 steps to reach the top. How many steps are visible on the stationary escalator?



In a race of 200 m run, A beats S by 20 m and N by 40 m. If S and N are running a race of 100 m with exactly the same speed as before, then by how many meters will S beat N?

- A. 11.11 m
- B. 10 m
- C. 12 m
- D. 25 m



In a 100 m race, if Deep gives Madan a start of 20 meters, then Deep wins the race by 5 seconds. Alternatively, if Deep gives Madan a start of 40 meters the race ends in a dead heat. How long does Deep take to run 200 m?

- A. 50 seconds
- B. 25 seconds
- C. 30 seconds
- D. 40 seconds



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A and B walk from X to Y, a distance of 27 km at 5-km/hr and 7-km/hr, respectively. B reaches Y and immediately turns back meeting A at Z. What is the distance from X to Z?

- A. 25 km
- B. 22.5 km
- C. 24 km
- D. 20 km



A train, an hour after starting, meets with an accident which detains it for a half hour, after which it proceeds at $\frac{3}{4}$ of its former rate and arrives 3.5 hours late. Had the accident happened 90 kilometers farther along the line, it would have arrived only 3 hours late. The length of the trip in kilometers was



Deepesh drives his car to pick up his son from school every day at 2 p.m. One day, school ended an hour early, so his son started walking home. Deepesh picked him up along the way, and they arrived home 20 minutes earlier than usual. How long did his son walk?

- A. 30 min
- B. 50 min
- C. 45 min
- D. 40 min



A, B, and C start running on a circular track of 400 m, from the same point, with A running clockwise and B and C running anti-clockwise. A takes 10 minutes to complete one full round. A and C meet for the first time after 8 minutes whereas A and B meet for the first time after 6 minutes. Find the time (in minutes) after which B will meet C for the first time.



Jeevan and Kushal start hiking from a trailhead toward a fire tower. Kushal is wearing a heavy backpack and walks slower. Jeevan starts walking at 5.2 km per hour. Halfway to the tower, the trail becomes steep, and Jeevan slows down to 2.6 km per hour. After reaching the tower, he immediately turns around and descends the steep part of the trail at 3.9 km per hour. He meets Kushal at the halfway point. What was Kushal's average speed until they met?

- A. 1.2 km/h
- B. 1.3 km/h
- C. 1.5 km/h
- D. 1.6 km/h



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A man swam across a river downstream for 28 km and immediately returned. It took him twice as long to make a return trip as to make the downstream trip. If the speed of river flow were twice as high, the trip downstream and back would have taken 672 minutes. Find the speed of man in still water.

- A. 9 kmph B. 12 kmph C. 8 kmph D. 10 kmph

On an upward-moving escalator, Raman, Sajid, and Varun take 20 steps, 24 steps, and 10 steps respectively to reach the top. On the same upward-moving escalator Raman takes 60 steps to come down from the top. Find the ratio of the time taken by Sajid and Varun to reach the top.

- A. 2:5 B. 3:10 C. 5:12 D. 4:11

In a kilometer race, A beats B by 1 minute. In the same race, B beats C by 30 seconds. If A beats C by 600 m in the same race, find the ratio of the speeds of A and B.

- A. 5:3 B. 3:2 C. 4:3 D. 2:1

Uday and Varun start running on a circular track of length 1000 meters with speeds of 2.5 m/s and 4 m/s, respectively. They start running from the same point A. If Uday and Varun run in the same direction then what will be the distance between them after 9 minutes?

- A. 130 m B. 160 m C. 190 m D. 350 m

Answer in comments



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