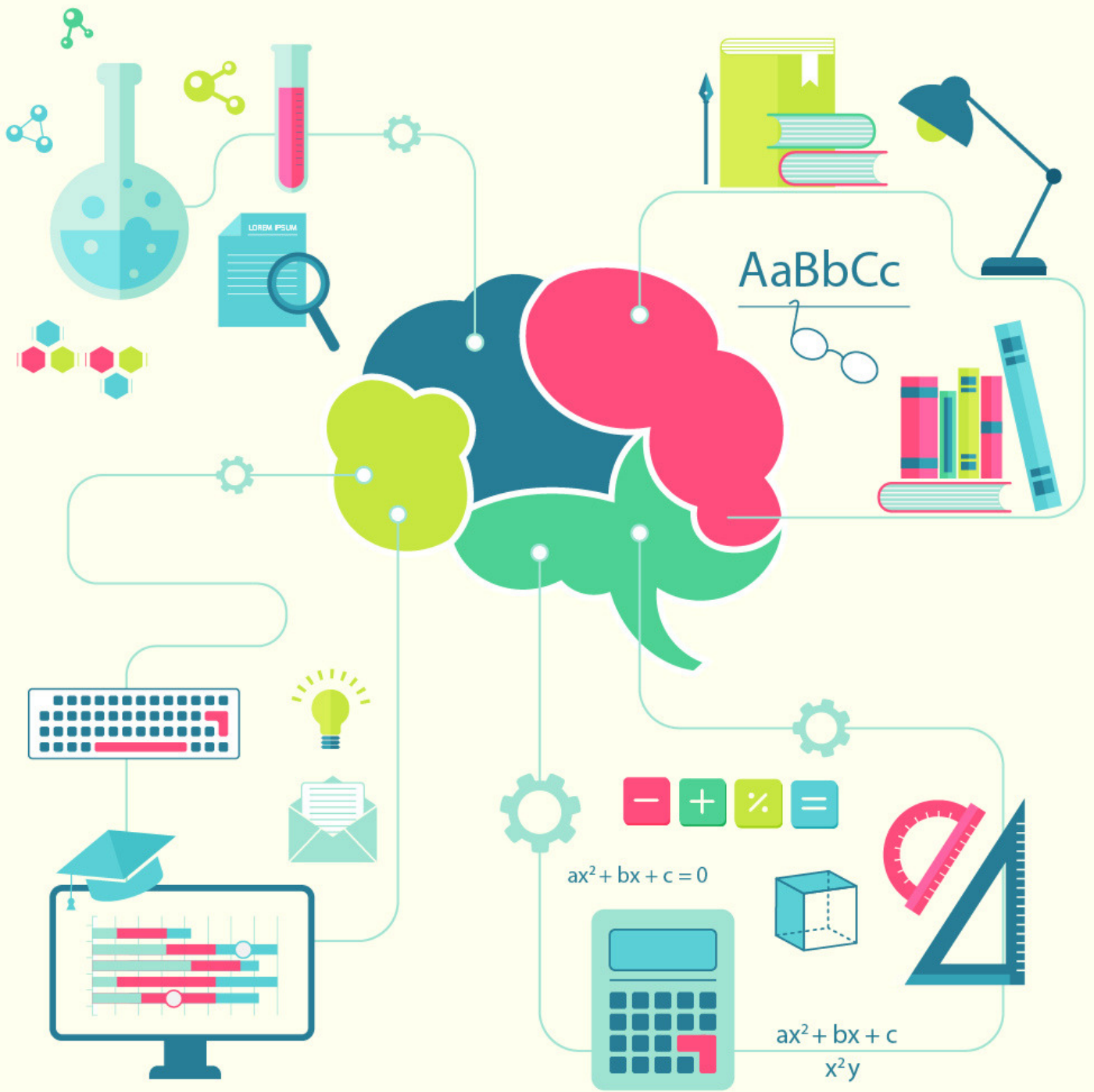


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# Time and Distance Questions for SSC CGL

16 April 2018





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**Question 1:** Raj and Prem walk in opposite directions at the rate of 3 km and 2 km per hour respectively. How far will they be from each other after 2 hours ?

- a) 10 km
- b) 8 km
- c) 6 km
- d) 2 km

**Question 2:** A train runs at an average speed of 75 km/hr. If the distance to be covered is 1050 kms, how long will the train take to cover it ?

- a) 13 hrs
- b) 12 hrs
- c) 15 hrs
- d) 14 hrs

**Question 3:** A and B are 20 km apart. A can walk at an average speed of 4 km/hour and B at 6 km/ hr. If they start walking towards each other at 7 a.m., when they will meet ?

- a) 8.00 a.m.
- b) 8.30 a.m.
- c) 9.00 a.m.
- d) 10.00 a.m.

**Question 4:** A policeman starts to chase a thief. When the thief goes 10 steps the policeman moves 8 steps. 5 steps of the policeman is equal to 7 steps of the thief. The ratio of the speeds of the policeman and the thief is

- a) 25 : 28
- b) 25 : 26
- c) 28 : 25
- d) 56 : 25

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**Question 5:** A tap drips at a rate of one drop/sec. 600 drops make 100ml. The number of litres wasted in 300 days is

- a) 4320000
- b) 432000
- c) 43200
- d) 4320

**Question 6:** A gun is fired at a distance of 1.34 km from Geeta. She hears the sound after 4 seconds. The speed at which sound travels is

- a) 325 m/sec
- b) 335 m/sec
- c) 330 m/sec
- d) 300 m/sec

**Question 7:** A and B together can do a piece of work in 12 days which B and C together can do in 16 days. After A has been working at it for 5 days and B for 7 days, C finishes it in 13 days. In how many days B could finish the work ?

- a) 48 days
- b) 24 days
- c) 16 days
- d) 12 days

**Question 8:** A policeman goes after a thief who has 100 metres start, if the policeman runs a kilometre in 8 min, and the thief a km in 10 min, the distance covered by thief before he is overpowered is

- a) 350 m
- b) 400 m
- c) 320 m
- d) 420 m

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**Question 9:** A swimmer swims from a point A against a current for 5 minutes and then swims backwards in favour of the current for next 5 minutes and comes to the point B. If  $AB = 100$  metres, the speed of the swimmer (in km per hour) is :

- a) 0.4
- b) 0.2
- c) 1
- d) 0.6

**Question 10:** Santa and Julie start walking from the same place in the opposite directions. If Julie walks at a speed of 2.5 km/hr and Santa at a speed of 2 km/hr, in how much time will they be 18 km apart ?

- a) 4.0 hrs
- b) 4.5 hrs
- c) 5.0 hrs
- d) 4.8 hrs

## Answers & Solutions:

### 1) Answer (A)

Since Raj and Prem walks in opposite directions, their relative speed will be sum of their individual speeds i.e.

Speed,  $ss = 3+2 = 5$  kmph

Now, distance covered in 2 hours = time \* speed  
 $= 5*2 = 10$  km

### 2) Answer (D)

Speed of train = 75 km/h

Distance to be covered = 1050 km

$\Rightarrow$  Time taken = distance / Speed  
 $= 1050 / 75 \Rightarrow 14$  hours.

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## 3) Answer (C)

Distance between A & B = 20 km

Since they are walking towards each other, their relative speed will be the sum of their individual speeds

=> relative speed =  $6+4 = 10$  km/h

=> Time taken to meet each other =  $20 / 10 = 2$  hours

=> They will meet at  $(7+2) = 9.00$  a.m.

## 4) Answer (C)

5 steps of Policeman = 7 steps of a thief

=> 1 step of Policeman =  $7/5$  steps of thief

=> 8 Steps of Policeman =  $8 \times 7/5$  steps of thief =  $56/5$  steps of thief

The ratio of speeds of policeman and thief = ratio of distance covered by policeman and thief in a same time

=> In same time policeman moves 8 steps and thief moves 10 steps

=>  $56/5 : 10$  (because as we calculated earlier 8 steps of policeman =  $56/5$  steps of thief)

=>  $56 : 50 = 28 : 25$

## 5) Answer (D)

Rate at which tap drips = 1 drop/sec

Now, no. of seconds in 1 day =  $24 \times 60 \times 60 = 86400$  sec

=> In 1 day the tap drips 86400 drops

=>  $86400 / 600 \times 100 = 14400$  ml = 14.4 litres

Thus, in 300 days, water wasted =  $14.4 \times 300 = 4320$  litres

## 6) Answer (B)

speed = distance/time =  $1.34\text{km}/4\text{sec} = 1340\text{m}/4\text{sec} = 335\text{m/s}$ .

so the answer is option B.

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## 7) Answer (A)

Let us assume the total work to be done as 48 units.

Let the capacities of A be a, B be b and C be c.

$$12(a+b) = 48 \Rightarrow a+b = 4 \text{ -----(1)}$$

$$16(b+c) = 48 \Rightarrow b+c = 3 \text{ -----(2)}$$

$$5a+7b+13c = 48 \text{ (Given in the question). -----(3)}$$

$$(1) \times 5 + (2) \times 13 \Rightarrow 5a + 5b + 13b + 13c = 20+39$$

$$5a+18b+13c = 59 \text{ -----(4)}$$

$$(4) - (3) \Rightarrow 11b = 11$$

$$b = 1$$

Therefore, b can complete the work in 48 days. Option A is the right answer.

## 8) Answer (B)

given that thief is already 100 m far from police and speed of police is 125 m/min

Speed of thief = 100 m /min

Relative speed of police= 125-100=25 m/min

Using distance = speed x time

$$100 = 25 \times T$$

$$T = 4 \text{ min}$$

In 4 minutes ,thief can cover =  $100 \times 4 = 400 \text{ m}$

## 9) Answer (D)

Let the speed of the swimmer be S and current be X.

$$5(S-X) + 5(S+X) = 100$$

$$\Rightarrow 10S = 100$$

$$S = 10 \text{ m/min} = 600 \text{ m/hour} = 0.6 \text{ kmph.}$$

Option D is the right answer.

## 10) Answer (A)

here it is given that speed of Santa and Julie are 2.5km/hr and 2km/hr respectively

As it is mentioned that both are going in opposite direction then relative speed =  $2.5+2 = 4.5 \text{ km/hr}$

Using Distance = Speed  $\times$  Time

$$\text{Distance} = 18 \text{ km}$$

$$18 = 4.5 \times T$$

$$T = 4 \text{ hours}$$

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