[Infosys Sample Time Calculation Problems](http://www.careersvalley.com/infosys-sample-time-calculation-problems" \o "Infosys Sample Time Calculation Problems)

**Question 1** On her way to Office, Sheela reaches a temple at 2/3rd distance of her journey and bus stand at 1/6th distance of her journey. The time taken by her to travel between temple and bus stand is 15 minutes. Also, she reaches bus stand at 7.30am.  
At what time she started from house? And when she reached her office?

a)7.15a.m and 7.45a.m b)7.25am and 7.55am c)7.20a.m and 8.00 a.m d)7.15a.m and 8.00a.m

**Answer :** b)7.25a.m & 7.55 a.m

Solution:

As given, during 2/3rd of her journey she reaches temple and at 1/6th of her journey she reaches bus stand.  
Fraction of distance between bus stand and temple = 2/3 - 1/6 = 3/6 = 1/2. This means that the distance between temple and bus stand equals half of the total distance from her house to office.

From our above calculation and given data we can infer that the time taken to cover 1/2 (half the distance) of her journey is 15 minutes.  
Then it is obvious that the time taken for whole journey would be 30 minutes (15 x 2 = 30 minutes).

The time taken to reach bus stand = 1/6 \* 30 minutes = 5 minutes. From question statements, we know that she reaches bus stand at 7.30a.m.

Therefore she would have started from house at 7.25 a.m (7.30 am - 5 minutes) and she would have reached her office at 7.55 a.m (7.25 + 30 minutes)

hence the answer is 7.25 a.m and 7.55 a.m

**Question 2** A boy leaves school at 5.00p.m and starts to his home. In the way, he reaches a shop at 1/4th of his journey and spends 10 minutes there. Suppose he does not spend time in shop, he will cover 1/2 (half the distance) of his journey. At what time he reaches his home?

1. 5.50p.m b) 5.30p.m c) 5.20p.m d) 5.25p.m

**Answer :** a)5.50 p.m

Solution:

It is indirectly implied that the time taken to travel 1/2 (half the distance) from 1/4th of the distance is 10 minutes.

i.e., The time taken to reach (1/2 - 1/4) = 1/4th of the total distance is 10 minutes.

Distance Time

1/4 10

1 ?

Therefore the time taken to reach home from school i.e time to taken to cover the entire distance is 10/(1/4) = 10 x 4 = 40 minutes.  
Additionally he spends 10 minutes at that shop.

Therefore his total journey time including his time at shop = 40 + 10 = 50 minutes.

Since he leaves school at 5.00 pm, he will reach his home at 5.00 pm + 50 minutes = 5.50 pm.

**Question 3** Agil is twice as fast as Mugil.Mugil is thrice as fast as Annie. The distance covered by Annie in 54 minutes will be covered by Mugil in \_\_\_ minutes.

a)27 minutes b)9minutes c)38 minutes d)18 minutes

**Answer :** d)18 minutes

Solution:

Let Annie's speed be X km/hr.  
Its given, Mugil is thrice as fast as Annie. Therefore Mugil's speed be 3X km/hr.  
Also it is said Agil is twice as fast as Mugil. Therefore, Agil's speed = Mugil's speed x 2 = 6X km/hr.

Therefore ratio of their speeds = 6X : 3X : X = 6 : 3 : 1

For a given distance, the time taken will be inversely proportional to speed.

Therefore, Ratio of times taken by the three friends Agil, Mugil and Annie = 1/6 : 1/3 : 1 = 1 : 2 : 6  
If Annie takes 6 minutes then Mugil takes 2 minutes.

If Annie takes 54 minutes then Mugil takes [2/6 \* 54]= 18 minutes.  
Hence the answer is 18 minutes.