



Time and Work Questions for SBI Clerk Set-2

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Instructions

Study the table carefully to answer the question that follow:

Distance (in kms) travelled by six trucks on six different days of the week

Truck Day	P	Q	R	S	T	U
Monday	240	250	320	325	330	300
Tuesday	320	264	308	314	318	314
Wednesday	324	294	330	312	310	325
Thursday	288	300	310	278	260	275
Friday	366	302	288	292	270	268
Saturday	292	284	260	274	280	242

Question 1

If the speed of truck P on Monday was 19.2 kmph, what was the time taken by it to cover the given distance?

- A 10 hours
- B 11 hours
- C 9 hours 30 minutes
- D 12 hours 30 minutes
- E None of these

Answer: D

Explanation:

Distance travelled by P on Monday = 240 km

Speed = 19.2 kmph

Speed = Distance/Time

Time = $\frac{240}{19.2} = 12.5 \text{ hr}$

∴ P took 12 hr 30 minutes to cover the distance.

Instructions

For the following questions answer them individually

Question 2

A truck covers a distance of 256 kms at the speed of 32 km/hr. What is the average speed of a car which travels a 160 kms more than the truck in the same time?

- A 46 km./hr.
- B 52 km./hr.
- C 49 km./hr.
- D 64 km./hr.
- E None of these

Answer: B

Explanation:

Time taken by truck = time taken by car = distance/speed = $256/32$

Time taken = 8 hours.

Total distance travelled by car = $256 + 160 = 416$

Avg. speed = total distance/total time

$= 416/8 = 52 \text{ km/hr}$

Option B is the right answer.

Question 3

Harish, Dilip and Asha start running around a circular stadium and complete one round in 27 s, 9 s and 36 s respectively. In how much time will they meet again at the same point?

- A 1 min 48 s
- B 2 min 36 s
- C 3 min 11 s
- D 2 min 25 s
- E None of these

Answer: A

Explanation:

Least common multiple of 36, 27 and 9 is 108.

Hence Harish, Dilip and Asha will meet at 108 second i.e 1 minute and 48 seconds.

Therefore, the correct option is option A.

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Question 4

Riya Manasvi and Pintu start running around a circular stadium and complete one round in 24 s, 6 s and 14 s respectively. In how much time will they meet again at the starting point ?

- A 1 min 32 s
- B 4 min 8 s
- C 3 min 25 s
- D 2 min 48 s
- E None of these

Answer: D

Explanation:

The time of their meeting again can be calculated by taking LCM of 24, 6 and 14.

LCM of 24, 6 and 14 = 168

Now, 168 seconds = 2 min 48 s.

Option D is correct.

Question 5

A tap can empty a tank in one hour. A second tap can empty it in 30 min. If both the taps operate simultaneously, how much time is needed to empty the tank ?

- A 20 min
- B 30 min
- C 40 min
- D 45 min
- E None of these

Answer: A

Explanation:

1 minute work of tap A = $\frac{1}{60}$

1 minute work of tap B = $\frac{1}{30}$

$\Rightarrow (A + B)$'s 1 minute work = $\frac{1}{60} + \frac{1}{30}$

= $\frac{1+2}{60} = \frac{3}{60}$

= $\frac{1}{20}$

\therefore Time taken by (A + B) to empty the tank = 20 min

Question 6

4 men can complete a piece of work in 2 days. 4 women can complete the same piece of work in 4 days whereas 5 children can complete the same piece of work in 4 days. If, 2 men, 4 women and 10 children work together, in how many days can the work be completed ?

A 1 day

B 3 days

C 2 days

D 4 days

E None of these

Answer: A

Explanation:

Let us first get a relation between the work done by a man, woman and a child.

1 man can do a work in $4 \times 2 = 8$ days

1 woman can do the same work in $4 \times 4 = 16$ days

1 child can do the same work in $4 \times 5 = 20$ days

$\Rightarrow 1 \text{ man} = 2.5 \text{ child and } 1.25 \text{ woman} = 0.8 \text{ child}$

2 men + 4 women + 10 children = $5 + 5 + 10 = 20$ children

1 child takes 20 days to complete a work $\Rightarrow 20$ children will take 1 day to complete the same work.

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Question 7

6 men finish one-fourth work in 2 days. The number of additional men required for finishing the same work in 2 days is

A 18 men

B 24 men

C 28 men

D 14 men

E None of these

Answer: A

Explanation:

Time taken by 6 men to finish the whole work = 8 days

Let the number of men required be x .

Less days, more men (Inverse Proportion)

Days Men

8 6

2 x

$$\Rightarrow x = (8 * 6) / 2 = 24 \text{ men}$$

The additional men required = $24 - 6$ men = 18 men

Question 8

Work done by A in one day is half of the work done by B in one day Work done by B is half of the work done by C in one day If C alone can complete the work in 7 days in how many days can A B and C together complete the work ?

A 28

B 14

C 4

D 21

E None of these

Answer: C

Explanation:

Let the speed of work done by A, B and C be a , b and c .

Now, $b = .5c$, $a = .5b = .25c$

c does work in 7 days. It's speed will be $W/7$. A's speed will be $.25W/7$ and B's speed will be $.5W/7$

Their combined speed is $1.75W/7$

Time taken by them to complete the work = $(1.75W/7) = \frac{7}{1.75} = 4$

Hence, together they will complete the work in 4 days.

Therefore, option C is correct.

Question 9

16 men can complete a piece of work in 7 days. In how many days will 28 men complete the same work ?

A 6

B 5

C 8

D 4

E None of these

Answer: D

Explanation:

The number of days 16 men take to complete a piece of work is 7 days.

Hence, the number of days it takes 1 man to complete the piece of work is $7 * 16 = 112$ days.

So, the number of days it takes 28 men to complete the piece of work is $\frac{112}{28} = 4$ days

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Question 10

24 Men can complete a piece of work in 15 days. In how many days will 18 men complete that work ?

- A 16 days
- B 20 days
- C 22 days
- D 25 days
- E None of these

Answer: B

Explanation:

24 men can complete the work in 15 days.

So, 1 man can complete the work in $15 \times 24 = 360$ days.

Hence, 18 men can complete the work in $\frac{360}{18} = 20$ days

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