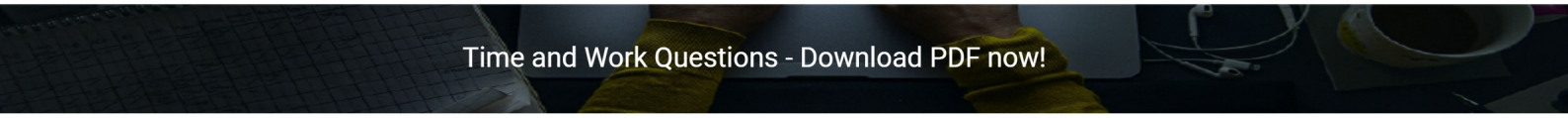

Time and Work questions are a very common type of questions asked in almost every competitive exam. These questions carry a weightage of 2-3 questions (4-6 marks) in SSC exams and 1-2 questions in bank exams. To get a good rank in competitive exams, you should have a good hold on the concepts of Time, Work and Efficiency.

Here are some tips for solving Time and Work questions: Use LCM method to determine work, read carefully what is asked in the question, try making calculations easy by avoiding using fractions, Use shortcuts and formulas.

So, we have attached 10 questions of Time and Work for you to practice with. You should aim to solve these questions in less than half a minute for each.

Practice Questions on Time and Work

You can also download the Time and Work questions and answers pdf. Just click on the **Download PDF** button. So let's start with the very first question.

Q:1 6 men and 8 women can do a work in 10 days. 2 men and 6 women can do the same work in 15 days. In how many days can 2 women and 4 men working together do the same work?

1. 45 days

2. 30 days

3. 15 days

4. 20 days

5. 10 days

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) A basic one! These type of questions are very common

Q:2 A and B take 12 days to complete a given task. B and C together complete the same task in 10 days, while C and A take 20 days to finish the same task. If all of them undertake the task at Rs 700, find the share of C.

1. Rs 250

2. Rs 200

3. Rs 350

4. Rs 300

5. None of these

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Try using short tricks, they will save your time

Q:3 Two pipes A and B can fill a cistern in 60 min and 75 min respectively. There is also an outlet pipe C. If all three pipes are opened together, the tank is full in 100 min. How much time will be taken by C to empty the full tank?

1. 135 min

2. 80 min

3. 120 min

4. 100 min

5. 50 min

(**Difficulty:** 2, **Estimated Time:** 10 Seconds) This was an easy one! Did you get it right?

Q:4 A, B and C are three book binders. A takes 10 minutes, B takes 12 minutes and C takes 15 minutes to bind a book. If they work each day for 12 hours, then on an average, a person can bind how many books per day?

1. 60 books

2. 90 books

3. 40 books

4. 100 books

5. 45 books

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) This was a test of your concepts!

Q:5 The number of days required by R, S and T to complete a work individually are 6, 12 and 8 respectively. They work for alternate days i.e. if R works on first day, then S works on second and T works on third and so on, how many days are needed to complete the whole work?

1. 8 days

2. 9 days

3. 8.5 days

4. 9.5 days

5. 10 days

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) We're halfway through. Have you got all your questions correct so far?

Q:6 A can do a piece of work in 64 days. If B is 13.33% more efficient than A, then what is the number of days required by A and B together to do the same piece of work?

1. 34 days

2. 30 days

3. 40 days

4. 24 days

5. 12 days

(**Difficulty:** 4, **Estimated Time:** 30 Seconds) This was a hard nut to crack, be prepared for such questions in exam!

Q:7 Rahul can do 5/8 of a work in 20 days and Rohan can do 4/5 of the same work in 16 days. In how many days they can complete 13/16 of the same work, working together?

1. 16 days

2. 13 days

3. 24 days

4. 26 days

5. 10 days

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) If you have a good understanding, you might have wrapped it up in 10 seconds!

Q:8 Amrita is 20% less efficient than Diksha. If Diksha can do a piece of work in 60 days. Find the number of days required by Amrita to complete the same work.

1. 80 days

2. 65 days

3. 70 days

4. 92 days

5. 75 days

(**Difficulty:** 2, **Estimated Time:** 15 Seconds) This was an interesting question!

Q:9 A man takes 12 days to complete a work by working for 8 hours a day while a woman completes the same work in 8 days by working 10 hours a day. In how many days will both of them complete the work by working together for 8 hours a day?

1. 52/11

2. 54/11

3. 58/11

4. 60/11

5. None of these

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Be ready for such questions in your exams!

Q:10 The efficiency of B is 1/2 of efficiency of A and also efficiency of B is 2/5 of efficiency of C. If C alone can complete the work in 35 days, in how many days will A and C together can complete the work?

1. 175/9 days

2. 137/9 days

3. 139/9 days

4. 136/9 days

5. 143/9 days

(**Difficulty:** 2, **Estimated Time:** 15 Seconds) This was an easy one. Did you guess them all correctly?

Answer Key

Let's check out your score in this test.

1. (2)	**2.** (2)	**3.** (5)	**4.** (1)	**5.** (1)
6. (2)	**7.** (5)	**8.** (5)	**9.** (4)	**10.** (1)

Comment below your score, considering each question has 1 mark only. If you scored 8 to 10, congratulations! You are one step closer to selection. If you have scored 5 to 8 marks, then you are doing well, keep it up. If you have scored less than 5 marks then you need to work a little harder on this subject. But don't worry, we are here to help you master the subject.

Let's check the answers and solutions and try to find out what went wrong.

Answers and Solutions

Q:1 The correct answer is **option 2** i.e. **30 days**

Total work can be taken as (6m + 8w)10 or (2m + 6w)15

According to question

(6m + 8w)10 = (2m + 6w)15

⇒ (6m + 8w)2 = (2m + 6w)3

⇒ 12m + 16w = 6m + 18w

⇒ 6m = 2w

⇒ m/w =1/3

It can be also written as

Efficiency of 1 man = 1 and efficiency of 1 woman = 3

Total work = (6m + 8w)10 = (6 × 1 + 8 × 3)10 = (6 + 24)10 = 300

Efficiency of 2 women and 4 men = 2 × 3 + 4 × 1 = 10

∴ Number of days taken by 2 women and 4 men to complete the total work 300/10 = 30 days

Q:2 The correct answer is **Option 2** i.e. **Rs 200**

Combined work of A and B in one day = 1/12

Combined work of B and C in one day = 1/10

Combined work of A and C in one day = 1/20

Adding these,

⇒ 1/A + 1/B + 1/B + 1/C + 1/A + 1/C = 1/12 + 1/10 + 1/20

⇒ (5 + 6 + 3)/60 = 7/30

⇒ 2(1/A + 1/B + 1/C) = 7/30

⇒ (1/A + 1/B + 1/C) = 7/60

If we subtract A and B combined work we get,

1/C = 7/60 - 1/12 = 2/60

Ratio of work done by C = 2/60 ÷ 7/60 = 2/7

Share of C = 700 × 2/7 = Rs 200

Q:3 The correct answer is **option 5** i.e. **50 min.**

The total capacity of the tank can be taken as L.C.M of working hours of the pipe

The total capacity of tank = LCM of 60, 75 and 30 = 300 unit

Efficiency of pipe A = 300/60 = 5 unit

Efficiency of pipe B = 300/75 = 4 units

Efficiency of (A + B - C) = 300/100 = 3 units

Efficiency of pipe C = 3 - (5 + 4) = - 6 units

∴ Time taken by pipe C to empty the tank = 300/6 = 50 min

Q:4 The correct answer is **Option 1** i.e. **60 books.**

A takes 10 min to bind 1 book

∴ In 60 min A binds = 60/10 = 6 books

B takes 12 min to bind 1 book

∴ In 60 min B binds = 60/12 = 5 books

C takes 15 min to bind 1 book

∴ In 60 min C bind = 60/15 = 4 book

Number of books bound by them in 1 hour = 6 + 5 + 4 = 15

Total number of books bound by them in 12 hours = 15 × 12 = 180

∴ Required average = 180/3 = 60 books

Q:5 The correct answer is **Option 1** i.e. **8 days**

Total work = LCM of 6, 12 and 8 = 24 unit

Per day efficiency of R = 24/6 = 4 unit

Per day efficiency of S = 24/12 = 2 unit

Per day efficiency of T = 24/8 = 3 unit

Work done by them in first 3 days = 4 + 2 + 3 = 9 unit

Work done in first 6 days = 9 × 2 = 18 units

In 7th day R will work and do 4 unit work

In 8th day S will work and do 2 unit work

Work done by them in 8 days = 18 + 4 + 2 = 24 units
∴ Number of days taken by them to complete the whole work = 8 days

Q:6 The correct answer is **option 2** i.e. **30 days**

13.33% = 2/15

Let efficiency of A = 15k

So, efficiency of B = 15 + 2 = 17k

Total work = The efficiency of A × Number of days taken by A = 15k × 64

Effciency of A and B together

15k + 17k = 32k

Time taken by A and B together to complete the whole work

(15k × 64)/32k = 30 days

Q:7 The correct answer is **Option 5** i.e. **10 days**

Since, Rahul can do 5/8 of work in 20 days

So, total work can be done by Rahul = 20 × 8/5 = 32 days

Total work

LCM of 32 and 20 = 160 unit

Per day efficiency of Rahul = 160/32 = 5 unit

Again

Since, Rohan can do 4/5 of same work in 16 days

So, total work can be done by Rohan = 16 × 5/4 = 20 days

Per day efficiency of Rohan = 160/20 = 8 unit

13/16 of total work = 160 × 13/16 = 130 unit
∴ Time taken by Rahul and Rohan to complete 130 unit work 130/(8 + 5) = 130/13 = 10 days

Q:8 The correct answer is **option 5** i.e. **75 days**

We know that, 20% = 1/5

Efficiency of Diksha = 5 unit

∴ Efficiency of Amrita = 5 - 1 = 4 unit

Total work = 5 × 60 = 300 unit

∴ Number of days taken by Amrita to complete the work = 300/4 = 75 days

Q:9 The correct answer is **option 4** i.e. **60/11**

A man can complete a work in 12 days by working 8 hours a day

A woman can complete the same work in 8 days by working 10 hours a day

Numbers of hours taken by the man to complete the work = 12 × 8 = 96

Work done in an hour by the man = 1/96

Number of hours taken by woman to complete the work = 8 × 10 = 80

Work done in an hour by the woman = 1/80

Work done by both of them in one hour = (1/96) + (1/80) = 11/480

work done by them in 8 hours = 8 × (11/480) = 11/60

So, Work will be completed in 60/11 days

Q:10 The correct answer is **Option 1** i.e. **175/9 days**

Relation between the efficiency of A, B and C

A = 2B

B = 2C/5

The ratio of efficiency of A, B and C is 4 : 2 : 5

Let their efficiency be 4x, 2x and 5x

C alone can complete the work in 35 days

Total work = efficiency × time

⇒ 5x × 35 = 175x

Time taken by A and C to complete the work = Total work/total efficiency

⇒ 175x/9x = 175/9 days

So, this is it for today. We will meet again with another new topic. Till then, you can practice the questions again by downloading the PDF of Time and Work.