

# GOUR INSTITUTE

PSC, Bank (Clerk/PO), SSC, Railways, S.I., Classes

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F – 12, City Bazar, Thatipur, Gwalior (M.P.) [www.gourinstitute.in](http://www.gourinstitute.in)

## WORK AND TIME

### INTRODUCTION

#### 1. Work from Days:

If A can do a piece of work in  $n$  days, then A's 1 day's work =  $\frac{1}{n}$ .

#### 2. Days from Work:

If A's 1 day's work =  $\frac{1}{n}$ , then A can finish the work in  $n$  days.

#### 3. Ratio:

If A is thrice as good a workman as B, then:

Ratio of work done by A and B = 3 : 1.

Ratio of times taken by A and B to finish a work = 1 : 3.

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### EXERCISE

01. A can do a piece of work in 30 days while B can do it in 40 days. If both work at it together, what time will they take to do the work-  
(a)  $17 \frac{2}{7}$  Days (b)  $17 \frac{1}{7}$  Days (c)  $17 \frac{3}{7}$  days (d)  $17 \frac{4}{7}$  days (e) None of these
02. Pipe A can fill a tank in 12 minutes while pipe B alone can fill it in 15 minutes and pipe C can empty the full tank in 20 minutes. If all the pipes are opened together, how much time will be needed to make the tank full –  
(a) 6 Minute (b) 8 Minute (c) 10 Minute (d) 12 Minute (e) None of these
03. If A and B pipes can fill a cistern in 30 and 40 minutes respectively and pipe C exceed water at the rate of 50 liters per minute. If all pipes are opened and cistern filled in one hour, how much water it contain-  
(a) 600 Liter (b) 800 Liter (c) 1000 Liter (d) 1200 Liter (e) None of these
04. 6 people can do a piece of work in 12 days after 3 days of their working 3 more people joined to finish the remaining work, In how many days, the remaining work will be finished-  
(a)  $4 \frac{1}{7}$  Days (b) 9 Days (c) 3 days (d) 6 days (e) None of these
05. A and B work together and complete the job in 8 days if A can finish it job in 12 days, how many days will be taken by to do the job alone-  
(a) 24 (b) 14 (c) 07 (d) 21 (e) None of these
06. Two pipes A and B can fill a cistern in 2 and 3 hours respectively. If both are opened in empty tank, in how many minutes will it be full-  
(a) 60 (b) 80 (c) 48 (d) 51 (e) None of these
07. Pipe A can fill a tank in 10 hours and pipe B can empty it in 15 hours. If both the pipes are opened in the empty tank, in how many hours will it be full-  
(a) 40 (b) 30 (c) 25 (d) 35 (e) None of these
08. A and B can do a work in 8 days, B and C can do it in 6 days; C and A can do it in 10 days. In how many days can they do it all working together-  
(a)  $5 \frac{5}{47}$  Days (b)  $5 \frac{5}{46}$  Days (c)  $5 \frac{5}{45}$  days (d)  $5 \frac{5}{44}$  days (e) None of these
09. 20 women can do a piece of work in 18 days, how many days required to finish the same job by 15 Women-  
(a) 22 Days (b) 24 Days (c) 25 Days (d) 26 Days (e) None of these

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10. 20 men can complete a given work in 180 days .the number of men required to complete the job in 40 days–  
(a) 88 Men      (b) 89 Men      (c) 90 Men      (d) 91 Men      (e) None of these
11. Expenses of 200 bulbs enlighten 5 hours per day for 6 days is 40 Rupees .how many bulbs enlighten 3 hours per day for 15 days in Rs.48 -  
(a) 88 Men      (b) 89 Men      (c) 90 Men      (d) 91 Men      (e) None of these
12. A can do a piece of work in 9 days ;B can finish same work in 10 days and C can complete it in 15 days .B and C start work together but after 2 days they quit .how many days will A take for remaining work -  
(a) 2 Days      (b) 4 Days      (c) 6 Days      (d) 8 Days      (e) None of these

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## **ANSWER SHEET**

### **WORK & TIME EXERCISE**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
B	C	D	D	A	E	B	A	B	C	E	C