

Time and Work-Exercise Questions updated on Dec 2024

Time and Work Aptitude basics, practice questions, answers and explanations
Prepare for companies tests and interviews

1. A can do a work in 14 days and working together A and B can do the same work in 10 days. In what time can B alone do the work?

- a. 25 days
- b. 30 days
- c. 23 days
- d. 35 days

2. Manu, Manju and Maya can do a work in 90, 30 and 45 days respectively. If they work together, in how many days will they complete work?

- a. 15
- b. 10
- c. 20
- d. 25

3. 40 men can catch 200 sharks in 20 days working 6 hours a day. In how many days 25 men can catch 300 sharks working 4 hours a day?

- a. 30
- b. 34
- c. 24
- d. 20

4. Amit and Ananthu can do a work in 15 days and 25 days respectively. Amit started the work and left after 3 days. Ananthu took over and completed the work. In how many days was the total work completed?

- a. 28 days
- b. 20 days
- c. 23 days
- d. 25 days

5. If A is thrice as fast as B and together can do a work in 21 days. In how many days A alone can do the work?

- a. 36
- b. 42
- c. 28
- d. 54

6. 9 men can do a work in 12 days working 4 hours a day. In how many days can 6 men do the same work, working 8 hours a day?

- a. 18
- b. 9
- c. 10
- d. 8

7. Rohit and Rohan can complete a work in 12 days and 6 days respectively. How much time will they take when working together?

- a. 4
- b. 3
- c. 5
- d. 2

8. Sita and Sinu together can do a work in 50 days. With the help of Smitha, they completed the work in 6 days and earn Rs.250. What is the share of Sinu if Sita alone can do the work in 100 days?

- a. Rs.15
- b. Rs.18
- c. Rs.20
- d. Rs.25

9. A and B can do a work in 60 days; B and C can do it in 120 days; A and C can do it in 80 days. In what time A alone can do the work?

- a. 100
- b. 90
- c. 80
- d. 70

10. Renu can do a piece of work in 6 days, but with the help of her friend Suma , she can do it in 4 days. In what time Suma can do it alone?

- a. 10
- b. 12
- c. 14
- d. 15

11. A can finish a work in 20 days, B in 15 days and C in 12 days. B and C start the work but are forced to leave after 2 days. The remaining work was done by A in :

- a. 10
- b. 11
- c. 13
- d. 14

12. Anu can do a work in 6 days and Binu alone in 9 days. Anu and Binu undertook to do it for Rs.4500. With help of Minu, they completed the work in 3 days. How much is to be paid to Minu and Anu?

- a. Rs.750, Rs.2250
- b. Rs.2000, Rs.750
- c. Rs.750, Rs.2000
- d. Rs.800, Rs.1250

13. Ram, Krish and Bhim can complete a work in 30 days. If Ram and Krish together can complete the same work in 40 days, then how long will Bhim take to complete it?

- a. 60
- b. 80
- c. 100
- d. 120

14. 3 workers transfer a tool weighing 120kg in 12 seconds. How many men are required to transfer it in 9 seconds?

- a. 4
- b. 5
- c. 6

d. 8

15. There is enough provision for 600 men in an army camp for 25 days. If there were 300 men less, how long will the provision last?

- a. 35 days
- b. 40 days
- c. 45 days
- d. 50 days

16. 2 men and 4 boys can complete a work in 4 days. 5 men and 6 boys can complete the same work in 3 days. The work done by 2 boys is equal to the work of how many men?

- a. 4
- b. 5
- c. 6
- d. 7

17. A is twice as good a workman as B and together they complete a work in 12 days. In how many days A alone can do the work?

- a. 32
- b. 34
- c. 35
- d. 36

18. Two pipes can fill a tank in 12 minutes and 20 minutes respectively. Both pipes are opened together and after some time the first pipe is closed and the tank is full in totally 10 minutes. For how many minutes was first pipe open?

- a. 8 minutes
- b. 6 minutes
- c. 7 minutes
- d. 10 minutes

19. Two pipes can fill a tank in 15 minutes and 12 minutes. The outlet pipe can empty the tank in 20 minutes. If all the pipes are opened when the tank is empty, then in how many minutes will it take to fill the tank?

- a. 12
- b. 13
- c. 11
- d. 10

20. Pipe A can fill a tank in 12 hours. Due to a leak at the bottom it takes 20 hours to fill the tank. In what time the leak alone can empty the full tank?

- a. 18 hours
- b. 23 hours
- c. 28 hours
- d. 30 hours

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Answer & Explanations

$$1. \text{ Exp: Work done by B in 1 day} = \frac{1}{10} - \frac{1}{14} = \frac{7-5}{70} = \frac{2}{70} = \frac{1}{35}$$

So, B alone can do the work in 35 days.

$$2. \text{ Exp: Manu's one day's work} = \frac{1}{90}$$

$$\text{Manju's one day's work} = \frac{1}{30}$$

$$\text{Maya's one day's work} = \frac{1}{45}$$

$$\text{Manu, Manju and Maya together can do the work} = \frac{1}{90} + \frac{1}{30} + \frac{1}{45} = \frac{1+3+2}{90} = \frac{6}{90} = \frac{1}{15}$$

So, They will complete the work in 15 days.

$$3. \text{ Exp: We have, } M_1D_1H_1 = M_2D_2H_2$$

$$\begin{array}{cc} W_1 & W_2 \\ = \frac{40 \times 20 \times 6}{200} & = \frac{25 \times D_2 \times 4}{300} \end{array}$$

$$D_2 = \frac{40 \times 20 \times 6 \times 300}{200 \times 25 \times 4} = 24$$

$$4. \text{ Amit's one day's work} = \frac{1}{15}$$

$$\text{Amit's 3 day's work} = \frac{1}{15} \times 3 = \frac{3}{15} = \frac{1}{5}$$

$$\text{Work left} = 1 - \frac{1}{5} = \frac{4}{5}$$

$$\frac{4}{5}$$

$$\text{Ananthu's one day's work} = \frac{1}{25}$$

$$\text{Ananthu can do work in} = \frac{4}{5} \times 25 = 20 \text{ days}$$

$$\frac{4}{5} \times 25 = 20$$

$$\text{So total days} = 25 + 3 = 28 \text{ days}$$

5. Exp: A's one day's work = $\frac{1}{3}$

X

B's one day's work = $\frac{1}{21}$

3x

A + B's one day's work = $\frac{1}{3} + \frac{1}{21} = \frac{1}{7}$

x 3x 21

$$= \frac{3+1}{3 \times 21} = \frac{4}{63} = \frac{1}{15.75}$$

3x 3x 21

$$x = \frac{21 \times 4}{3} = 28$$

3

6. Exp: We have, M1D1H1 = M2D2H2

So, $9 \times 12 \times 4 = 6 \times D2 \times 8$

$$D2 = \frac{9 \times 12 \times 4}{6 \times 8} = 9$$

6*8

7. Exp: Time taken by Rohit and Rohan = $\frac{xy}{x+y}$

x+y

$$= \frac{12 \times 6}{12+6} = 4 \text{ days}$$

12+6

8. Exp: Sinu's one day's work = $\frac{1}{50} - \frac{1}{100}$

50 100

$$= \frac{2-1}{100} = \frac{1}{100}$$

100 100

Sinu's 6 day's work = $6 \times \frac{1}{100} = \frac{3}{50}$

100 50

Sinu completed $\frac{3}{50}$ th of total work.

50

So, Sinu's share = $\frac{3}{50} \times 250 = \text{Rs. } 15$

50

9. Exp: (A+B)'s one day's work = $\frac{1}{60}$

60

(B+C)'s one day's work = $\frac{1}{120}$

120

(A+C)'s one day's work = $\frac{1}{80}$

80

Adding we get, 2(A+B+C)'s one day's work = $\frac{1}{60} + \frac{1}{120} + \frac{1}{80} = \frac{28}{365} = \frac{14}{365}$

60 120 80 720 365

(A+B+C)'s one day's work = $\frac{14}{365} \times 2 = \frac{14}{182.5}$

365*2 720

So, A's one day's work = $\frac{14}{720} - \frac{1}{120} = \frac{1}{90}$

720 120 90

A alone can do the work in 90 days.

10. Exp: Renu's one day's work = $\frac{1}{6}$

6

Suma's one day's work = $\frac{1}{4} - \frac{1}{6} = \frac{1}{12}$

4 6 12

Suma can do it alone in 12 days.

11. Exp: (B+C)'s one day's work = $\frac{1}{15} + \frac{1}{12} = \frac{3}{20}$

15 12 20

Work done by B and C in 2 days = $\frac{3}{20} \times 2 = \frac{3}{10}$

20 10

Remaining work = $1 - \frac{3}{10} = \frac{7}{10}$

10 10

$\frac{7}{10}$ work is done by A in 1 day.

20

So, $\frac{7}{10}$ work is done by A in $20 \times \frac{7}{10} = 14$ days

10

10

12. Exp: Minu's one day's work = $\frac{1}{3} - \frac{1}{6} + \frac{1}{9}$

$$= \frac{1}{3} - \frac{5}{18} = \frac{1}{18}$$

Anu's wages: Binu's wages: Minu's wages = $\frac{1}{6} : \frac{1}{9} : \frac{1}{18} = 6 : 4 : 2$

Minu's share = Rs.4500 * $\frac{2}{12}$ = Rs.750

Anu's share = Rs.4500 * $\frac{6}{12}$ = Rs.2250

13. Exp: Ram + Krish + Bhim's work = $\frac{1}{30}$

Ram and Krish's work = $\frac{1}{40}$

Bhim's work = $\frac{1}{30} - \frac{1}{40} = \frac{1}{120}$

14. Exp: We have, $M_1D_1H_1 = M_2D_2H_2$

$$3 * 120 * 12 = M_2 * 120 * 9$$

$$M_2 = \frac{3 * 120 * 12}{120 * 9} = 4$$

15. Exp: We have, $M_1D_1 = M_2D_2$

$$600 * 25 = 300 * D_2$$

$$D_2 = \frac{600 * 25}{300} = 50 \text{ days.}$$

$$300$$

16. Exp: $(2m + 4b)$'s one day's work = $\frac{1}{4}$

$(5m + 6b)$'s one day's work = $\frac{1}{3}$

$$3$$

$\Rightarrow (8m + 16b)$'s one day's work = $(15m + 18b)$'s one day's work

$\Rightarrow 7$ men's work = 2 boy's work

So, we should be employ 5 more men to be completed the work.

17. Exp: A's one day's work : B's one day's work = 2:1

$(A+B)$'s one day's work = $\frac{1}{12}$

12

B's one day's work = $\frac{1}{12} * \frac{1}{2} = \frac{1}{36}$

12 3 36

B alone can do the work in 36 days.

18. Exp: Second pipe is opened for 10 minutes. So, part of tank filled by the second pipe = $\frac{10}{20} = \frac{1}{2}$.

So, $1 - \frac{1}{2} = \frac{1}{2}$ tank is filled by first pipe. First pipe can fill $\frac{1}{2}$ of tank in $\frac{1}{2} * 12 = 6$ minutes.

So, the first pipe is opened for 6 minutes.

19. Exp: Part of tank filled by all three pipes in one minute =

$\frac{1}{15} + \frac{1}{12} - \frac{1}{20} = \frac{8+10-6}{120} = \frac{18-6}{120}$

$\frac{12}{120}$

= $\frac{1}{10}$

10

So, the tank becomes full in 10 minutes.

20. Exp: Let leak can empty the full tank in x hours.

$\frac{1}{12} - \frac{1}{x} = \frac{1}{20} \Rightarrow \frac{1}{12} - \frac{1}{x} = \frac{1}{20}$

$\frac{12}{120} - \frac{120}{120x} = \frac{120}{120 * 20}$

$\frac{5-3}{30} = \frac{1}{20}$

$\frac{60}{60} = \frac{30}{30}$

x = 30 hours