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Time and work Questions for Bank Clerk Pre Exams.

Time and work Quiz 11

Directions: Study the following Questions carefully and choose the right answer:

1. 12 men and 15 women can do a piece of work in 24 days. In how many days can the work be done by 10 men and 12 women working together?

- A. 12
D. Can't be determined
- B. 16
E. None of these
- C. 18

2. Mahesh can complete a job in 5 days. Mahesh is twice as fast as Akhilesh while Akhilesh is thrice as fast as Nimesh. If all of them work together, in how many days would the job get completed?

- A. 5 days
- B. 9 days
- C. 12 days
- D. 3 days
- E. None of these

3. 100 Men were employed to finish a work in 180 days. After 60 days it was found that only $\frac{1}{5}$ of the work was done. How many more men must be employed to finish the work in the stipulated time?

- A. 100
- B. 200
- C. 300
- D. 150
- E. None of these

4. If A can do $\frac{1}{4}$ of a work in 3 days and B can do $\frac{1}{6}$ of the same work in 4 days, how much will A get if both work together and are paid Rs.180 in all?

- A. Rs. 60
- B. Rs. 120
- C. Rs. 90
- D. Rs. 180
- E. None of these

5. 20 women can complete a work in 14 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete the work?

- A. $\frac{42}{5}$
- B. $\frac{56}{5}$
- C. $\frac{62}{5}$
- D. $\frac{34}{5}$
- E. None of these

6. Anamika can do a piece of work in 30 days and Anjali can do the same work in 40 days. Anjali starts the work alone and works for 15 days and left the work. After that remaining work completed by Anamika and Arun together in $7\frac{1}{2}$ days. In how many days can Arun do the whole work alone?

- A. 15 days
- B. 20 days
- C. 30 days
- D. 25 days
- E. None of these

7. 10 men complete any work in 8 days and 16 women complete same work in 10 days. 8 women start the work and stop working after 4 days. How many men will complete the remaining work in 4 days?

- A. 15 men B. 20 men C. 16 men D. 12 men E. None of these

8. Aman, Naman and Kamal can do a piece of work in 6 hours. Aman and Naman can do the same work in 8 hours and Naman and Kamal can do the same work in 12 hours. In how many times will Aman and Kamal do the same work?

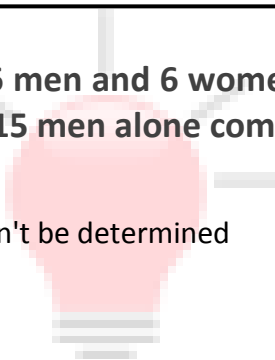
- A. 6 hours B. 8 hours C. 10 hours D. 12 hours E. 15 hours

9. A can do a piece of work in 24 days, B is 20% more efficient than A. If C can do the work in 10 more days than B, In how many days can A and C do the whole work together?

- A. 25 days B. $\frac{35}{2}$ days C. $\frac{40}{3}$ days D. 18 days E. None of these

10. 6 men and 6 women together can complete a piece of work in 6 days. In how many days can 15 men alone complete the same work if 9 women alone can complete it in 10 days?

- A. 5 B. 6 C. 7
D. Can't be determined E. None of these



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Correct Answers:

1	2	3	4	5	6	7	8	9	10
D	D	A	B	B	B	C	B	C	E

Explanations:

1. The given information is not enough to answer the question.

Hence, option D is correct.

2. As per the question,

Mahesh can do a piece of work in 5 days, Akhilesh can do the same work in 10 days, Nimesh can do the same work in 30 days.

So together they can do the piece of work in 1 day

$$= \left(\frac{1}{5} + \frac{1}{10} + \frac{1}{30} \right)$$

$$= \left(\frac{12 + 6 + 2}{60} \right) + \frac{20}{60} = \frac{1}{3}$$

In a day they finish 1/3rd of the work.

Hence, together they will finish the piece of work in 3 days.

Hence, option D is correct.

3. By product constancy

$$\frac{M1 \times D1}{W1} = \frac{M2 \times D2}{W2}$$

$$\frac{100 \times 60}{\frac{1}{5}} = \frac{a \times 60}{1 - \frac{1}{5}}$$

$$\Rightarrow a = 200$$

$$\Rightarrow \text{Total workers} = 200$$

$$\Rightarrow \text{Extra men required} = 200 - 100 = 100$$

Hence, option A is correct.

4.

$$A's \text{ one day work} = \frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$$

$$B's \text{ one day work} = \frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$$

$$\begin{aligned} A's \text{ wages} : B's \text{ wages} &= A's \text{ 1 day's work} : B's \text{ 1 day's work} \\ &= \frac{1}{12} : \frac{1}{24} = 2 : 1 \end{aligned}$$

$$\Rightarrow A's \text{ share} = \frac{2}{3} \times 180 = \text{Rs.}120$$

Hence, option (B) is correct.

5. 20 women can complete the work in 14 days

Let the work completed by 1 women in 1 day = w

So work done by 20 women in 1 day = $20 \times w$

We know that work = $M \times D \times H$

Here,

M = no. of men

D = no of days

H = hours

$\therefore$ Work done by 20 women in 14 days = $20 \times w \times 14$

Let the work completed by 1 child in 1 day = c

So, work completed by 10 children in 1 day = $10 \times c$

So, work done by 10 children in 14 days = $10 \times c \times 14$

$\therefore$ Work is equal

$$\therefore 20 \times w \times 14 = 10 \times c \times 14$$

$$2 \times w = c$$

Let 5 women and 10 children complete the work in = d days

$$\therefore \text{Complete work} = (5 \times w + 10 \times c) \times d$$

$$\therefore 1 \text{ child} = 2 \text{ women}$$

$$\therefore 10 \text{ children} = 20 \text{ women}$$

$$(5 \text{ women} + 20 \text{ women}) = 25 \text{ women}$$

$$\text{Again work is equal } 25 \times w \times d = 20 \times w \times 14$$

$$\text{So, } d = \frac{56}{5} \text{ days}$$

Hence, option (B) is correct.

6.

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

$$\text{Anjali's 1 day work} = \frac{1}{40}$$

$$\text{Anjali's 15 day work} = \frac{15}{40} = \frac{3}{8}$$

$$\text{Remaining work} = 1 - \frac{3}{8} = \frac{5}{8}$$

Let Arun can do the work in 'm' days.

$$\text{Arun's 1 day work} = \frac{1}{m}$$

According to the question,

$$\left(\frac{1}{30} + \frac{1}{m}\right) \times \frac{15}{2} = \frac{5}{8}$$

$$\frac{1}{30} + \frac{1}{m} = \frac{1}{12}$$

$$\frac{1}{m} = \frac{1}{12} - \frac{1}{30}$$

$$\frac{1}{m} = \frac{5-2}{60}$$

$$\frac{1}{m} = \frac{3}{60} = \frac{1}{20}$$

$$m = 20 \text{ days}$$

Arun can do the whole work in 20 days.

Hence, option B is correct.

7. According to the question,

$$10m \times 8 = 16w \times 10$$

$$1m = 2w$$

$$8 \text{ women} = 4 \text{ men}$$

Let x men complete the remaining work in 4 days.

$$10 \times 8 = (4 \times 4) + (4 \times x)$$

$$80 = 16 + 4x$$

$$4x = 64$$

$$x = 16 \text{ men}$$

Hence, option C is correct.

8. Let Aman and Kamal can do the same work in x hours.

According to the question,

$$\text{Kamal can do the work} = \frac{1}{\frac{1}{6} - \frac{1}{8}}$$

$$= \frac{1}{\frac{4-3}{24}} = 24 \text{ hours}$$

$$\text{Aman can do the work} = \frac{1}{\frac{1}{6} - \frac{1}{12}}$$

$$= \frac{1}{\frac{2-1}{12}} = 12 \text{ hours}$$

$$\text{Aman and Kamal can do the work} = \frac{1}{\frac{1}{12} + \frac{1}{24}}$$

$$= \frac{1}{\frac{2+1}{24}} = 8 \text{ hours}$$

Hence, option B is correct.

9. Ratio of the efficiency of A and B = 100 : 120 = 5 : 6

$$\text{Ratio between the time taken by A and B} = \frac{1}{5} : \frac{1}{6}$$

$$= 6 : 5$$

If A can do the work in 24 days then B can do the same work in

$$\frac{24}{6} \times 5 = 20 \text{ days}$$

C can do the same work in 20 + 10 = 30 days.

$$\text{A and C together can do the same work} = 1 \left(\frac{1}{24} + \frac{1}{30} \right)$$

$$= \frac{1}{\frac{5+4}{120}}$$

$$= \frac{1}{\frac{9}{120}} = \frac{40}{3} \text{ days}$$

Hence, option C is correct.

10. ∴ 9 women can complete the work in 10 days

∴ 6 women can complete the work in $\frac{10 \times 9}{6} = 15$ days

6 women in 6 days complete $\frac{6}{15} = \frac{2}{5}$ part

∴ The remaining part $\left(1 - \frac{2}{5}\right) = \frac{3}{5}$ part will be

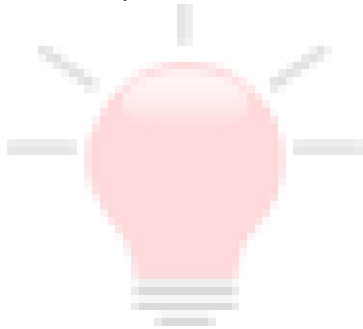
Completed by 6 men in 6 days

So, 6 men's work in 1 day = $\frac{3}{5 \times 6} = \frac{1}{10}$ th part

∴ 6 men can complete the work in 10 days

∴ 15 men can complete the work in $\frac{6 \times 10}{15} = 4$ days

Hence, option E is correct.



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