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## Time and work Questions for CDS, CLAT and SSC Exams.

### Time and work Quiz 2

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

**1. P can finish a work in 25 days and Q can do the same work in 20 days. Q worked for 8 days and left the job. In how many days, P alone can finish the remaining work?**

- A. 5 days                      B. 10 days                      C. 15 days                      D. 17 days

**2. Nitin and Nirdosh together can complete a piece of work in 6 days. If Nitin alone can complete the same work in 24 days; in how many days can Nirdosh alone complete that work?**

- A. 8                      B. 12                      C. 14                      D. 15

**3. A, B and C together earn Rs. 300 per day, while A and C together earn Rs. 188 and B and C together earn Rs. 152. The daily earning of C is:**

- A. Rs. 40                      B. Rs. 68                      C. Rs. 112                      D. Rs. 150

**4. 10 men and 15 women together can complete a work in 6 days. It takes 100 days for one man alone to complete the same work. How many days will be required for one woman alone to complete the same work?**

- A. 125                      B. 150                      C. 200                      D. 225

**5. A girl can do a job in 10 days, Her mother takes 25 days and her sister finishes it in 20 days. How long will they take to complete the job if they all together?**

- A. Less than 5 days                      B. Exactly 5 days                      C. Approximately 5.3 days                      D. More than 6 days

**6. A man can do a piece of work in 5 days, but with the help of his son, he can do it in 3 days. In what time can the son do it alone?**

- A.  $6\frac{1}{2}$  days                      B. 7 days                      C.  $7\frac{1}{2}$  days                      D. 8 days

**7. A and B can do a piece of work in 45 days and 40 days respectively. They began to do the work together but A leaves after some days and then B completed the remaining work in 23 days. The number of days after which A left the work was:**

- A. 6                      B. 8                      C. 9                      D. 12

**8. A, B and C can do a piece of work in 11 days, 20 days and 55 days respectively, working alone. How soon can the work be done if A is assisted by B and C on alternate days?**

A. 7 days

B. 8 days

C. 9 days

D. 10 days

**9. If 12 men and 16 boys can do a piece of work in 5 days; 13 men and 24 boys can do it in 4 days, then the ratio of the daily work done by a man to that of a boy is :**

A. 2 : 1

B. 3 : 1

C. 3 : 2

D. 5 : 4

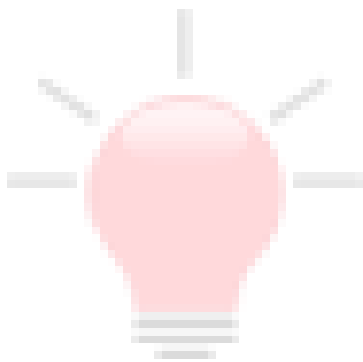
**10. A can do a piece of work in 10 days and B can do the same piece of work in 20 days. They start the work together, but after 5 days A leaves. B will do the remaining piece of work in:**

A. 6 days

B. 8 days

C. 5 days

D. 10 days



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**Correct Answers:**

<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>
C	A	A	D	C	C	C	B	A	C

**Explanations:****1.**

$$Q's\ 8\ day's\ work = \left[\frac{1}{20} \times 8\right] \Rightarrow \frac{2}{5}$$

$$Remaining\ work = \left[1 - \frac{2}{5}\right] \Rightarrow \frac{3}{5}.$$

Now,  $\frac{1}{25}$  work is done by P in 1 day.

$$\therefore \frac{3}{5} \text{ work is done by P in } \left[25 \times \frac{3}{5}\right] \Rightarrow 15 \text{ days.}$$

Hence, option C is correct.

**2.**

$$(Nitin + Nirdosh)'s\ 1\ day's\ work = \frac{1}{6}$$

$$Nitin's\ 1\ day's\ work = \frac{1}{24}$$

$$\therefore \text{Nirdosh's } 1\ day's\ work$$

$$= \left[\frac{1}{6} - \frac{1}{24}\right] \Rightarrow \frac{3}{24} \Rightarrow \frac{1}{8}.$$

Hence, Nirdosh can complete the work in 8 days.

Hence, option A is correct.

$$\mathbf{3.}\ B's\ daily\ earning = Rs. (300 - 188) = Rs. 112.$$

$$A's\ daily\ earning = Rs. (300 - 152) = Rs. 148.$$

$$C's\ daily\ earning = Rs. [300 - (112 + 148)] = Rs. 40.$$

Hence, option A is correct.

**4.** 1 man's 1 day's work

$$= \frac{1}{100}, (10 \text{ men} + 15 \text{ women})'s \text{ 1 day's work} = \frac{1}{6}.$$

15 women's 1 day's work

$$= \left( \frac{1}{6} - \frac{10}{100} \right) = \left( \frac{1}{6} - \frac{1}{10} \right) = \frac{1}{15}.$$

$$\therefore 1 \text{ woman's 1 day's work} = \frac{1}{225}.$$

Then, 1 woman alone can complete the work in 225 days.

Hence, option D is correct.

**5.** 1 day's work of the three persons

$$= \left[ \frac{1}{10} + \frac{1}{25} + \frac{1}{20} \right]$$

$$\Rightarrow \frac{10 + 4 + 5}{100} = \frac{19}{100}.$$

So all the three together will complete the work in

$$\frac{100}{19} = 5.3 \text{ days}$$

Hence, option C is correct.

**6.** Son's 1 day's work

$$= \left( \frac{1}{3} - \frac{1}{5} \right) = \frac{2}{15}.$$

$\therefore$  The son alone can do the work in

$$\frac{15}{2} = 7\frac{1}{2} \text{ days.}$$

Hence, option C is correct.

**7.** To solve this question, we can apply a short trick approach;

A and B do a piece of work in 'a' and 'b' days, respectively. Both begin together but after some days, A leaves off and the remaining work is completed by B in 'x' days. Then, the time after which A left, is given by

$$T = \frac{(b-x)a}{a+b}.$$

Given that a = 45 days, b = 40 days, x = 23, T = ?

By the short trick approach, we get

$$= \frac{(40-23)45}{45+40}$$

$$= \frac{17 \times 45}{85} = 9 \text{ days.}$$

Hence, option C is correct.

**8.** (A + B)'s 1 day's work

$$= \left( \frac{1}{11} + \frac{1}{20} \right) = \frac{31}{220}.$$

(A + C)'s 1 day's work

$$= \left( \frac{1}{11} + \frac{1}{55} \right) = \frac{6}{55}.$$

Work done in 2 days

$$= \left( \frac{31}{220} + \frac{6}{55} \right) = \frac{55}{220} = \frac{1}{4}.$$

Now,  $\frac{1}{4}$  work is done by A in 2 days.

$\therefore$  Whole work will be done in  $(4 \times 2) = 8$  days.

Hence, option B is correct.

9. Let 1 man's 1 day's work = x and 1 boy's 1 day's work = y.

Then,  $12x + 16y$

$$= \frac{1}{5} \text{ and } 13x + 24y = \frac{1}{4}.$$

Solving these two equations, we get: x

$$= \frac{1}{100} \text{ and } y = \frac{1}{200}.$$

∴ Required ratio = x : y

$$= \frac{1}{100} : \frac{1}{200} = 2 : 1.$$

Hence, option A is correct.

10. To solve this question, we can apply a short trick approach:

A can do a work in x days and B can do the same work in y days. If they work together for 'k' days and A goes away, then the number of days in which B finishes the y work is given by

$$y - \left(1 + \frac{y}{x}\right) k \text{ days.}$$

A's time = x = 10 days

B's time = y = 20 days'

work together time = k = 5 days

By the short trick approach we get,

$$= 20 - \left(1 + \frac{20}{10}\right) \times 5 \text{ days.}$$

$$= 20 - (1 + 2) \times 5 \text{ days}$$

$$= (20 - 15) \text{ days} = 5 \text{ days.}$$

Hence, option C is correct.



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