



Time and Work Ex 11.1 Q21

**Answer :**

Earnings of 25 men in 10 days = Rs. 1000

$\therefore$  Earnings of 25 men in 1 day = Rs.  $\frac{1000}{10}$  = Rs. 100

$\therefore$  Earning of 1 man in 1 day = Rs.  $\frac{100}{25}$  = Rs. 4

$\therefore$  Earnings of 1 men in 15 days = Rs.  $(15 \times 4)$  = Rs. 60

$\therefore$  Earnings of 15 men in 15 days = Rs.  $(60 \times 15)$   
= Rs. 900

Time and Work Ex 11.1 Q22

**Answer :**

If Ashu works for 8 hours daily, he can finish the work in 18 days.

If he works for 1 hour daily, he can finish the work in  $(18 \times 8)$  days or 144 days.

$\therefore$  Number of hours he should work daily to finish the work in 12 days =  $\frac{144}{12}$   
= 12

Time and Work Ex 11.1 Q23

**Answer :**

Number of garlands made by 9 girls in 1 hour =  $\frac{135}{3}$  = 45

Number of garlands made by 1 girl in 1 hour =  $\frac{45}{9}$  = 5

$\therefore$  Number of girls required to make 270 garlands in 1 hour =  $\frac{270}{5}$  = 54.

Time and Work Ex 11.1 Q24

**Answer :**

Time taken by the first tap to fill the cistern = 8 hours

Time taken by the second tap to fill the cistern = 4 hours

$\therefore$  Work done by the first tap in 1 hour =  $\frac{1}{8}$

Work done by the second tap in 1 hour =  $\frac{1}{4}$

$\therefore$  Work done by both the taps in 1 hour =  $\frac{1}{8} + \frac{1}{4}$

=  $\frac{1+2}{8}$  =  $\frac{3}{8}$

Thus, both the taps together will fill the cistern in  $\frac{8}{3}$  hours or  $2\frac{2}{3}$  hours.

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