Time and Work Ex 11.1 Q1

Answer :

It is given that Rakesh can do a piece of work in 20 days.

$\therefore$ Rakesh's 1 day's work $= \frac{1}{20}$

$\therefore$ Rakesh's work for 4 days $= \frac{4}{20} = \frac{1}{5}$

Thus, he can do $\frac{1}{5}$th of the work in 4 days.

Time and Work Ex 11.1 Q2

Answer :

Rohan can paint $\frac{1}{3}$rd of a painting in 6 days.

$\therefore$ Time taken by Rohan to complete the painting $= (6 \times 3)$ days $= 18$ days.

Time and Work Ex 11.1 Q3

Answer :

Time taken by Anil to do the work $= 5$ days

Time taken by Ankur to do the work $= 4$ days

$\therefore$ Work done by Anil in 1 day $= \frac{1}{5}$

Work done by Ankur in 1 day $= \frac{1}{4}$

$\therefore$ Work done by Anil and Ankur in one day $= \frac{1}{5} + \frac{1}{4}$

$= \frac{4+5}{20} = \frac{9}{20}$

Thus, Anil and Ankur can do the work in $\frac{20}{9}$ days i.e. $2\frac{2}{9}$ days.

Time and Work Ex 11.1 Q4

Answer :

Time taken by Mohan to do the work $= 9$ hours

Time taken by Mohan and Sohan to do the work $= 4$ hours

$\therefore$ Work done by Mohan $= \frac{1}{9}$

Work done by Mohan and Sohan $= \frac{1}{4}$

$\therefore$ Work done by Sohan $= \frac{1}{4} - \frac{1}{9}$

$= \frac{9-4}{36} = \frac{5}{36}$

Thus, Sohan can do the work in $\frac{36}{5}$ hours i.e. $7\frac{1}{5}$ hours.

********** END **********