

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 = (6×3) 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 $1 \text{ day} = \frac{1}{5}$

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

... 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 = $\frac{1}{4}$

... 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.

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