$y = 36$

Therefore
Number of days taken by women to finish the work = 18

Number of days taken by men to finish the work = 36

(20) Let us take
speed of train : x km/h
Speed of Bus : y km/h

A.T.Q

$$\frac{60}{x} + \frac{240}{y} = 4 \quad \text{---(1)}$$

$$\frac{100}{x} + \frac{200}{y} = \frac{25}{6} \quad \text{---(2)}$$

put $\frac{1}{x} = m$ and $\frac{1}{y} = n$

$$60m + 240n = 4 \quad \text{---(3)}$$

$$100m + 200n = \frac{250}{6}$$

$$600m + 2400n = 40 \quad \text{---(5)}$$

Now, Substract eq 4 from 5 to get

$$1200n = 15$$

$$n = \frac{15}{1200} = \frac{1}{80}$$

Substitute the value of n in eq 3 to get

$60n + 3 = 4$

$n = \frac{1}{60}$

$n = \frac{1}{x} = \frac{1}{60}$

$x = 60$

and $y = \frac{1}{80}$

$y = 80$

Therefore

Speed of train = 60 km/h

Speed of bus = 80 km/h.