

02/04

1. 1d work of X = $\frac{1}{40}$

X work

$$8 \times \frac{1}{40} \rightarrow$$

$\frac{1}{5}$ work completed

$$\frac{4}{5} \Rightarrow \frac{16}{40}$$

$$Y = 20 \text{ days}$$

$$\frac{1}{40} + \frac{1}{20} \Rightarrow \frac{2+1}{40} \Rightarrow \frac{3}{40}$$

$$\text{Days: } \frac{40}{3} \Rightarrow 13 \times \frac{1}{3} \text{ days}$$

2. 1d work of A & B $\Rightarrow \frac{1}{30}$
 $\downarrow \quad \downarrow$
 $\frac{16}{40} \quad \frac{Y}{40}$
days days

$$16x + 4y = 30$$

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$$16x + 16y = 16$$

$$28y = 14$$

$$y = \frac{14}{28}$$

$$y = \frac{1}{2}$$

$$\therefore y = 20 \text{ days} \rightarrow 12 \times 20 \text{ days}$$