

8/103/

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1. A is thrice as good as B:

eg: B did
in 30 days

Added in
10 days

$$B - \frac{B}{3} \Rightarrow 60$$

$$\frac{3B - B}{3} = 60$$

$$\frac{2B}{3} = 60$$

$$B = 90 \text{ days}$$

$$A = 30 \text{ days}$$

$$1d = 1/90$$

$$1d = 1/30$$

$$\frac{1}{90} + \frac{1}{30} \Rightarrow$$

$$\frac{1+3}{90} \Rightarrow \frac{4}{90}$$

$$\Rightarrow \frac{90}{4} \text{ days}$$

$$\Rightarrow 22.5 \text{ days}$$

2. A can do in $\Rightarrow 4 \text{ hrs} \Rightarrow 1/4$ (1 hr work)

(B & C) together can do in $\Rightarrow 3 \text{ hrs} \Rightarrow 1/3$ (1 hr work)

(A & C) can do in $\Rightarrow 2 \text{ hrs} \Rightarrow 1/2$ (1 hr work)

$$\frac{1}{4} + \frac{1}{x} \Rightarrow \frac{1}{2}$$

$$x = 4$$

$$\therefore C \text{ can do in } 4 \text{ hrs}$$

$$B \& C$$

$$\frac{1}{4} + \frac{1}{4} = \frac{1}{3}$$

$$\frac{4+y}{4y} = \frac{1}{3}$$

$$12 + 3y = 4y$$

$$y = 12 \text{ hrs}$$