

Time and work - I

Q1. A does a work in 10 days & B does a work in 15 days.
In how many days they together will finish the same work.
1) 5 days 2) 6 days 3) 7 days 4) 8 days.

$$\begin{array}{rcl} & \text{days} & \text{eff} \\ A = 10 & \nearrow 3 & \\ B = 15 & \searrow 2 & \end{array} \rightarrow 30(\text{work})$$

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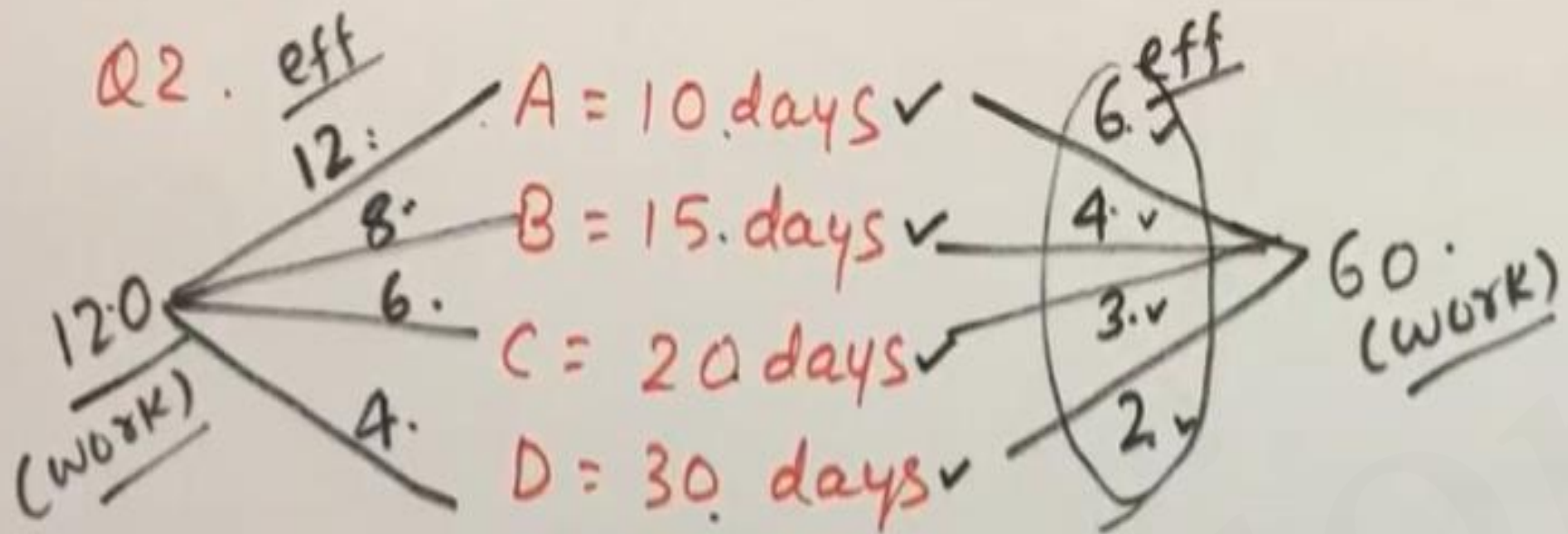
$$5 \overline{) 10, 15} \\ 2, 3$$

$$\begin{array}{ccc} 10 \times 3 = 30 \\ \downarrow \quad \downarrow \quad \downarrow \\ \text{days} \quad \text{eff} \quad \text{work} \checkmark \end{array}$$

$$10 \times \underline{3 \text{ chair}} = \underline{30}(\text{work}) \leftarrow$$

$$\underline{5 \times 2 \times 3 = 30}$$

$$\begin{array}{c} d \quad e \quad w \\ \downarrow \quad \downarrow \quad \downarrow \\ d \times e = w \\ \downarrow \quad \downarrow \quad \downarrow \\ 10 \times 3 = 30 \end{array}$$



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2	10, 15, 20, 30
3	5, 15, 10, 15
5	5, 5, 10, 5
	1, 1, 2, 1
	$2 \times 3 \times 5 \times 2$
	60

$A + B + C + D = ?$ in how many days. = 60

$\frac{120}{30} = 4$ days ✓

$\frac{\text{work } 60}{\text{eff } 15} = 4 \text{ days}$

days $\times$ eff = work