

TIME & WORK

→ A → 1 day → 2 Apples.

⇒ 5 days ⇒ 10 App.

⇒ No. of days ⇒ 10 Apples.

$$\frac{10}{2} \Rightarrow 10 \text{ days}$$

$$\begin{array}{l}
 \alpha \times \alpha \\
 \alpha \times 3 \\
 \alpha \times 4 \\
 \text{No. of days} = \underline{\underline{N}}
 \end{array}$$

$\frac{\alpha}{\alpha}$

$$\Rightarrow \alpha \times N = 10$$

$\therefore N = 10 \text{ days}$



$$\begin{array}{l}
 1 \text{ day} \rightarrow 3 \text{ Apples} \\
 \Rightarrow 5 \text{ days} \rightarrow 15 \\
 3 \times \alpha \Rightarrow \text{No. of days} \Rightarrow 30 \text{ Apples} \\
 3 \times 3 \\
 3 \times 4 \\
 3 \times N = 30 \quad \therefore [N = 10 \text{ days}]
 \end{array}$$

4×2

$4N$

$$\left[\begin{array}{l} A \rightarrow 1 \text{ day} \rightarrow 2 \text{ Apples} \\ A \rightarrow 1 \text{ day} \rightarrow 2 \text{ Apples} \end{array} \right] \Rightarrow 4 \text{ Apples}$$

$$5 \text{ days} \rightarrow 5 \times 4 = 20 \text{ Apples}$$

$$\left[\begin{array}{l} 40 \text{ Apples} \Rightarrow \text{No. of days} \\ "N" \end{array} \right]$$

$$4N = 20$$

$$\therefore N = 5 \text{ days}$$

II 5:50 / 21:47

$$\left[\begin{array}{l} A \rightarrow 1 \text{ day} \rightarrow 3 \text{ App.} \\ B \rightarrow 1 \text{ day} \rightarrow 6 \text{ App.} \end{array} \right] \Rightarrow 9$$

$$5 \text{ days} \Rightarrow 45$$

$$9N = 180$$

$$[N = 20 \text{ days}]$$

$$\left[\begin{array}{l} \text{No. of days} \rightarrow 180 \text{ Apples} \\ N \end{array} \right]$$

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$$\begin{array}{l}
 A \rightarrow \frac{1}{\alpha} \text{ day} \rightarrow \frac{1}{\alpha} \Rightarrow \frac{y_2}{\alpha} = + \\
 B \rightarrow \frac{1}{\beta} \text{ days} \rightarrow \frac{1}{\beta} \Rightarrow \frac{y_4}{\beta} = + \\
 \hline
 y_2 + y_4 = \underline{\underline{\frac{3}{4}}}
 \end{array}$$

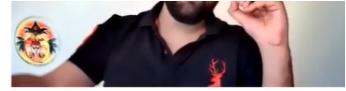
$$\frac{3}{4} \times 3 \quad \boxed{\frac{3}{4} \times N} \quad \begin{array}{l} \xrightarrow{\quad} \\ \xrightarrow{\quad} \end{array} \quad \begin{array}{l} \frac{5}{=}\text{ days} \rightarrow \frac{3}{4} \times 5 \Rightarrow \frac{15}{4}\text{ Apples.} \\ \text{No. of days} \Rightarrow 12\text{ Apples} \quad \therefore \frac{N}{4} = 12 \quad \therefore N = 16 \\ \xrightarrow{\quad} "N" \end{array}$$

Efficiency \Rightarrow $\frac{t}{w}$



$$\text{L} \rightarrow A \rightarrow 5 \text{ days} \Rightarrow 1 \text{ day} \rightarrow \frac{1}{5}^{\text{th}}$$

$$B \rightarrow 6 \text{ days} \Rightarrow 1 \text{ day} \Rightarrow \frac{1}{6}^{\text{th}}$$



$$\left\{ \begin{array}{l} A \text{ does } \rightarrow \frac{4}{4} \text{ days} \rightarrow \text{eff}_A \rightarrow \frac{1}{4}^{\text{th}} \\ B \text{ does } \rightarrow \frac{5}{5} \text{ days} \rightarrow \text{eff}_B \rightarrow \frac{1}{5}^{\text{th}} \end{array} \right. + \frac{1}{4} + \frac{1}{5} = \frac{9}{20}$$

\rightarrow No. of days \rightarrow finish. \rightarrow work together

$\xrightarrow{\underline{\underline{N}}} \frac{9}{20} \times 2$

$$\frac{9}{20} \times N = 1 \quad \therefore [N = \frac{20}{9} \text{ days}]$$

II 17:03 / 21:47



$$\begin{array}{l} \xrightarrow{\underline{\underline{Q}}} \\ \left\{ \begin{array}{l} A \rightarrow \frac{4}{4} \text{ days} \rightarrow \frac{Q}{Q} \text{ units} \rightarrow 1 \rightarrow \frac{5}{5} \text{ units/day} \\ B \rightarrow \frac{5}{5} \text{ days} \rightarrow \frac{Q}{Q} \text{ units} \rightarrow 1 \rightarrow \frac{4}{4} \text{ units/day} \end{array} \right. \end{array}$$

$$5 + 4 = \frac{9}{9} \text{ units/day}$$

$$\text{No. of days} \rightarrow \underline{\underline{N}}$$

$$\begin{aligned} & \xrightarrow{Q \times 2} \\ & Q \times N = \frac{Q}{Q} \\ & [N = \frac{Q}{Q} \text{ days}] \end{aligned}$$

A can finish a work in 10 days and B can finish the same work in 20 days. If they work together, what will be the total time taken to finish the work?

$$A \rightarrow 10 \text{ days} \rightarrow 1 \text{ unit}$$

$$B \rightarrow 20 \text{ days} \rightarrow 1 \text{ unit}$$

No. of days $\Rightarrow "N"$

$$\frac{3}{20} \times 2$$

$$\frac{3}{20} \times N = 1 \quad \therefore \left[N = \frac{20}{3} \right]$$

$$A \rightarrow \frac{1}{10} \text{ unit} \\ B \rightarrow \frac{1}{20} \text{ unit}$$

$$\frac{1}{10} + \frac{1}{20} = \frac{3}{20}$$



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$$A \rightarrow 10 \text{ days} \rightarrow 20 \text{ units}$$

\Rightarrow

$$B \rightarrow 20 \text{ days} \rightarrow 20 \text{ units}$$

$$"N" \Rightarrow 3N = 20$$

$$N = \frac{20}{3} \text{ days}$$

$$\begin{aligned} \text{Eff A} &\rightarrow 20 \text{ units} \\ \text{Eff B} &\rightarrow 1 \text{ unit} \end{aligned} \quad \left[\begin{array}{l} 20 \\ + \\ 1 \end{array} \right] \quad \boxed{3 \text{ units}}$$



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A can complete work in 30 days and B can complete in 20 days.
 A works for 5 days and then B joins him. In how many days
 after B joins, the work will get completed?

$$A \rightarrow \frac{1}{30} \text{ days} \rightarrow \frac{1}{60} \text{ units}$$

$$B \rightarrow \frac{1}{20} \text{ days} \rightarrow \frac{1}{60} \text{ units}$$

$$\frac{1}{60} \times 5 = \frac{5}{60} \text{ units} \Rightarrow \frac{1}{12} \text{ units}$$

$$5N = 1 \Rightarrow N = 10 \text{ days}$$

$$\left. \begin{array}{l} \text{Eff A} \rightarrow \frac{1}{60} \text{ units} \\ \text{Eff B} \rightarrow \frac{1}{60} \text{ units} \end{array} \right\} \frac{1}{30} \text{ units}$$

"N"

$$\begin{aligned} & 5 \times 2 \\ & 5 \times 3 \\ & 5N \end{aligned}$$

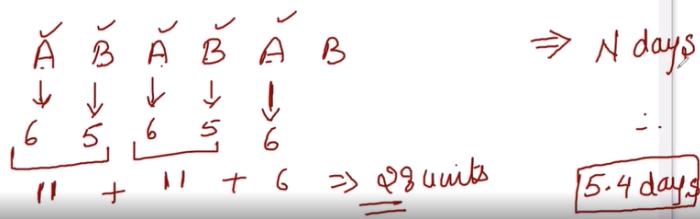
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A can finish a work in 5 days and B can finish the same work in 6 days. If they work on alternate days, what will be the total time taken to finish the work if A started with the work first?

$$A \rightarrow 5 \text{ days} \rightarrow \frac{1}{5} \text{ units/day}$$

$$B \rightarrow 6 \text{ days} \rightarrow \frac{1}{6} \text{ units/day}$$



$$5N = 28$$

$$N = \frac{28}{5} = 5.6 \text{ days}$$

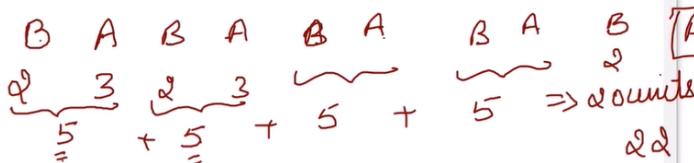
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A can finish a work in 8 days and B can finish the same work in 12 days. If they work on alternate days, what will be the total time taken to finish the work if B started with the work first.

$$A \rightarrow \frac{8}{=}\text{ days} \rightarrow 24 \text{ units} \rightarrow \text{eff}_A = \frac{3}{=} \text{ units/day}$$

$$B \rightarrow \frac{12}{=}\text{ days} \rightarrow 24 \text{ units} \rightarrow \text{eff}_B = 2 \text{ units/day}$$

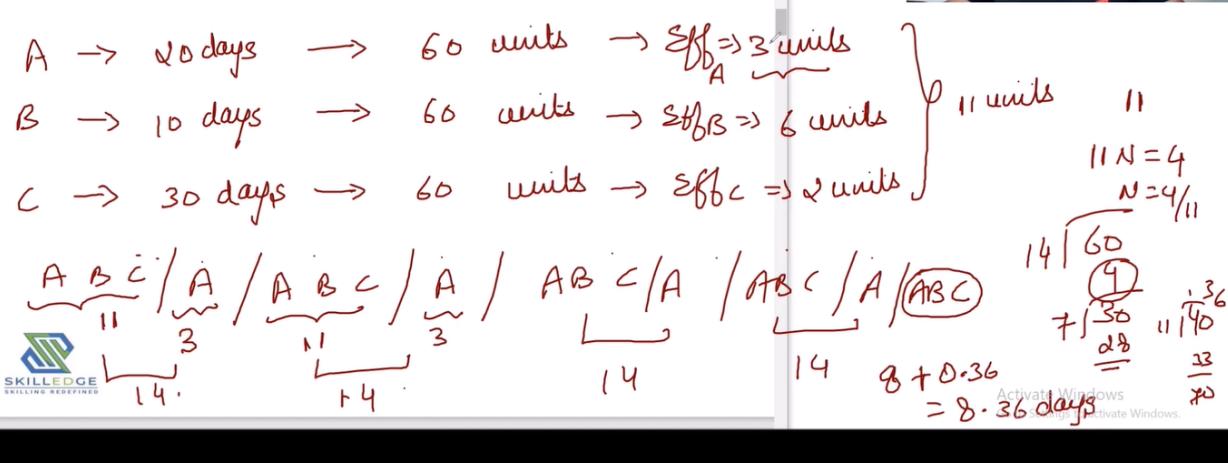


$$\begin{aligned} 3N &= 9 \\ N &= \frac{9}{3} \\ &= 0.66 \end{aligned}$$

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A can complete work in 20 days, B can complete in 10 days and C can complete the work in 30 days. A works daily and B and C works along with A on alternate days. In how many days the work will get completed if all three of them work together on the first day.





A, B and C together can complete a work in 20 days. B and C can complete the same work in 40 days. In how many days A alone can complete the same work?

$A B C \rightarrow \underline{20} \text{ days} \rightarrow 40 \text{ units} \rightarrow \text{Eff}_{ABC} \rightarrow 2 \text{ units/day}$
 $B C \rightarrow \underline{40} \text{ days} \rightarrow 40 \text{ units} \rightarrow \text{Eff}_{BC} \rightarrow 1 \text{ unit/day}$

$A \rightarrow \underline{1} \text{ unit/day}$
 $(1)(N) = 40 \quad \therefore N = 40 \text{ days}$

$\begin{array}{c} A + B + C \rightarrow 2 \\ (1) \quad \quad \quad 1 \end{array}$

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A, B and C together can complete a work in 20 days. A can do the work in 30 days. In how many days can B and C together finish the work?

$$A \cup B \cup C \rightarrow 20 \text{ days} \rightarrow 60 \text{ units}$$

$$A \rightarrow 30 \text{ days} \rightarrow 60 \text{ units}$$

$$\text{Eff. } B \cup C \rightarrow 1 \text{ unit/day}$$

$$(1) N = 60 \quad \therefore \boxed{N = 60 \text{ days}}$$

$$\text{Eff. } A \cup B \cup C \rightarrow 3 \text{ units/day}$$

$$\text{Eff. } A \rightarrow 2 \text{ units/day}$$

$$\underbrace{A}_{2} + \underbrace{B + C}_{1} \rightarrow 3$$

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A, B and C working alone can finish the job in 4, 6 and 12 days. All three of them work together for 1 day and A leaves, then B and C work together for 1 day and B leaves. C finishes the rest of the work. Find the time taken by C to finish the remaining work?

$$\begin{array}{ll}
 A \rightarrow 4 \text{ days} \rightarrow \frac{12}{4} = 3 \text{ units} & \text{Eff}_A \rightarrow 3 \text{ units} \\
 B \rightarrow 6 \text{ days} \rightarrow \frac{12}{6} = 2 \text{ units} & \text{Eff}_B \rightarrow 2 \text{ units} \\
 C \rightarrow 12 \text{ days} \rightarrow \frac{12}{12} = 1 \text{ unit} & \text{Eff}_C \rightarrow 1 \text{ unit}
 \end{array}$$

1st day → 6 units → 2nd day → 3 units → C → finish
 "N" 3 units

$$N = 3 \text{ days}$$

$$1(N) = 3$$



27:40 / 34:51

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A can finish $\frac{2}{3}$ part of work in 12 days and B can finish $\frac{3}{4}$ part of the same work in 21 days. If they work together, what will be the total time taken to finish the work?

$$A \rightarrow \frac{12}{2} \text{ days} \rightarrow \frac{2}{3} \text{ part} \rightarrow \frac{84}{2} = 42 \text{ units}$$

$$B \rightarrow \frac{21}{3} \text{ days} \rightarrow \frac{3}{4} \text{ part} \rightarrow \frac{84}{3} = 28 \text{ units}$$

$$\frac{23}{3} N = 84$$

$$N = \frac{84 \times 3}{23} = \frac{252}{23}$$

$$A \rightarrow 12 \text{ days} \rightarrow 56 \text{ units} \quad \text{Eff} \rightarrow \frac{56}{12} = \frac{14}{3} \text{ units/day}$$

$$B \rightarrow 21 \text{ days} \rightarrow 63 \text{ units} \quad \text{Eff}_B \rightarrow \frac{63}{21} = 3 \text{ units/day}$$



32:12 / 34:51

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A takes 30 days and B takes 20 days to complete the work. They work together and for 6 days and then leaves. C finishes remaining work in 42 days. In how many days can C alone finish the work?

$$A \rightarrow 30 \text{ days} \rightarrow 60 \text{ units} \quad \text{Eff A} \rightarrow 2 \text{ u/day}$$

$$B \rightarrow 20 \text{ days} \rightarrow 60 \text{ units} \quad \text{Eff B} \rightarrow 3 \text{ u/day}$$

$$5 \times 6 \Rightarrow \underline{\underline{30 \text{ units}}} \rightarrow \underline{\underline{30 \text{ units "x" }}} \quad \text{Eff C} \rightarrow 5 \text{ u/day}$$

$$C \rightarrow 42 \text{ days} \rightarrow 30 \text{ units}$$

$$1 \text{ day} \rightarrow \frac{30}{42} = \frac{15}{21} = \frac{5}{7} \text{ units/day}$$

$$\frac{5}{7} N = 60$$

$$N = \frac{60}{\cancel{5}} \times \cancel{7} = \underline{\underline{84 \text{ days}}}$$

Ans.



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A is 5 times as efficient as B. A takes 80 days less than B to complete the work. In how many days the work will get completed if they work together?

$$A \rightarrow \underline{\underline{4}} \text{ days} \rightarrow 28 \text{ units} \rightarrow \text{Eff A} \rightarrow \underline{\underline{7}} \text{ units/day}$$

$$B \rightarrow \underline{\underline{7}} \text{ days} \rightarrow 28 \text{ units} \rightarrow \text{Eff B} \rightarrow \underline{\underline{4}} \text{ units/day}$$



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$\text{Eff}_B \quad A : 7 : 4 \quad | \quad 4 : ?$
 $A \rightarrow 7 \text{ days} \rightarrow 28 \text{ units} \rightarrow \text{Eff}_B \rightarrow 4 \text{ units/day}$
 $B \rightarrow ? \text{ days} \rightarrow 28 \text{ units} \rightarrow \text{Eff}_B \rightarrow 4 \text{ units/day}$
 $E \uparrow \times \frac{1}{t} \downarrow \quad E \Rightarrow A : \frac{B}{3} =$
 $3 : A$


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$\text{Eff}_B A = 5 \text{ Eff}_B B$
 $\frac{\text{Eff}_B A}{\text{Eff}_B B} = \frac{5}{1} \quad \therefore \frac{T_A}{T_B} = \frac{1}{5} \cdot \frac{x}{5x} \text{ days}$
 $T_A = 20 \text{ days}$
 $T_B = 100 \text{ days}$


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$\text{Eff}_B A = 5 \text{ Eff}_B B$
 $\frac{\text{Eff}_B A}{\text{Eff}_B B} = \frac{5}{1} \quad \therefore \frac{T_A}{T_B} = \frac{1}{5} \cdot \frac{x}{5x} \text{ days}$
 $T_A = 20 \text{ days}$
 $T_B = 100 \text{ days}$

$\begin{cases} A \rightarrow 20 \text{ days} \rightarrow 100 \\ B \rightarrow 100 \text{ days} \rightarrow 100 \\ \frac{50}{100} \text{ day} \rightarrow 5 \text{ units/day} \\ \frac{100}{100} \text{ day} \rightarrow 10 \text{ units/day} \end{cases}$
 $[6N = 100 \therefore N = \frac{100}{6}]$


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A is 6 times as efficient as B. A takes 100 days less than B to complete the work. In how many days the work will get completed if they work together?

$$\text{Eff A} = 6 \text{ Eff B}$$

$$\frac{\text{Eff A}}{\text{Eff B}} = \frac{6}{1} \quad \frac{T_A}{T_B} = \frac{1}{6} = \frac{x \text{ days}}{6x \text{ days}}$$

$$\frac{1}{N} = \frac{1}{120} \quad N = 120 \text{ days}$$

$$x + 100 = 6x$$

$$x = \frac{100}{5} = 20$$

$$T_A \Rightarrow 20 \text{ days} \rightarrow 120 \text{ units} \rightarrow \\ T_B \Rightarrow 120 \text{ days} \rightarrow 120 \text{ units} \rightarrow$$

$$6 \text{ units/day} \quad 1 \text{ unit/day}$$



9:58 / 42:41

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A is thrice as efficient as B and B is twice as efficient as C.
 A,B,C together can finish the work in 12 days. How much time will B take to finish the work?

A B C

6 2 1

$$6x + \boxed{2x} + \frac{x}{=} \Rightarrow \underline{\underline{9x \text{ u/day}}}$$

$\therefore \text{Total} \Rightarrow 9x \times 12$

$$\boxed{= 108x}$$

$$2x \times 2$$

$$2x \times 3$$

$$(2x)N = 108x$$

$$N = \frac{108}{2} = \underline{\underline{54 \text{ days}}}$$



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A and B can do a piece of work in 15 and 20 days respectively. They start working together but B leaves after X days and A finishes the rest of the work in (X+5) days. How many days did B work?

$$A \rightarrow 15 \text{ days} \rightarrow 60 \text{ units} \rightarrow \underline{\underline{4 \text{ u/day}}} \quad (x+5)$$

$$B \rightarrow 20 \text{ days} \rightarrow 60 \text{ units} \rightarrow \underline{\underline{3 \text{ u/day}}}$$

$$\underline{\underline{3x}} + \underline{\underline{(x+5)4}} = 60$$

$$3x + 4x + 20 = 60 \\ 7x = 40 \therefore [x = \frac{40}{7}] \text{ days}$$



14:39 / 42:41

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A is 3 times efficient as B. B works for X days and leaves. A finishes rest of the work in X+3 days. Ratio of work done by B and A is 2:9. Find the no. of days in which they can complete the work together?

$$A = 3B$$

4y units/day

$$\frac{A}{B} = \frac{3}{1} = \frac{\underline{\underline{3y \text{ u/day}}}}{\underline{\underline{y \text{ u/day}}}} \Rightarrow 4y \text{ u/day}$$

$$B \rightarrow \underline{\underline{xy \text{ units}}}$$

$$A \rightarrow \underline{\underline{3y \text{ [x+3]}}}$$

$$\frac{\underline{\underline{xy}}}{\underline{\underline{3y(x+3)}}} = \frac{2}{9} \\ 3x = 2x + 6$$



17:50 / 42:41

$$x = 6$$

$$B \rightarrow 6y \text{ units} \\ A \rightarrow 27 \text{ units} + \underline{\underline{[33y \text{ units}]}}$$

$$(4y)N = 33y$$

$$[N = \frac{33}{4} \text{ days}]$$

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5 men takes 6 days to complete 60 units of work. Calculate the amount of work done by 3 Men in 12 days?

$$\frac{\text{No. of Men} \rightarrow \text{hours per day}}{\boxed{\frac{M_1 \rightarrow T_1 \rightarrow D_1}{W_1 \downarrow \text{work}}}} = \frac{\text{No. of Men} \rightarrow \text{Time hours per day}}{\boxed{\frac{M_2 \rightarrow T_2 \rightarrow D_2 \rightarrow \text{days}}{W_2 \downarrow \text{work}}}}$$

$$\frac{\text{No. of Men} \rightarrow \text{hours per day}}{\boxed{\frac{M_1 \rightarrow T_1 \rightarrow D_1}{W_1 \downarrow \text{work}}}} = \frac{\text{No. of Men} \rightarrow \text{Time hours per day}}{\boxed{\frac{M_2 \rightarrow T_2 \rightarrow D_2 \rightarrow \text{days}}{W_2 \downarrow \text{work}}}}$$

$\boxed{W_2 = 72}$

$$\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2} \Rightarrow \frac{5 \times 6}{60} = \frac{3 \times 12}{W_2}$$

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10 men takes 7 days to complete 70 units of work. Calculate the amount of work done by 2 Men in 14days?

$$\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}$$

$$\frac{10 \times 7}{70} = \frac{2 \times 14}{W_2}$$

$$\therefore W_2 = 28 \text{ units}$$



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6 men working 5 hours daily takes 12 days to complete 120 units of work. Calculate the amount of work done by 6 Men in 14 days working 10 hours daily.

$$\frac{M_1 \ D_1 \ T_1}{W_1} = \frac{M_2 \ D_2 \ T_2}{W_2}$$

$$\frac{6 \times 5 \times 10}{100} = \frac{6 \times 14 \times 10}{W_2} \quad \therefore [W_2 = 280 \text{ units}]$$



24:04 / 42:41

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6 men completes the work in 18 days and 9 women takes 30 days to complete the same work. If 4 men and 10 women works for 10 days and only men are asked to complete the remaining work in 3 days, How many men would be required?

$$6 \text{ m} \rightarrow 18 \text{ days} \quad \boxed{\frac{1}{M} \text{ day}} \rightarrow \frac{1}{18 \times 6} \checkmark \quad 9 \text{ w} \rightarrow 30 \text{ days}$$

$$1 \text{ m} \rightarrow [18 \times 6] \text{ days} \quad \boxed{\frac{1}{W} \text{ day}} \rightarrow \frac{1}{30 \times 9} \checkmark \quad 1 \text{ w} \rightarrow 30 \times 9 \text{ days}$$

$$\left[\frac{1}{18 \times 6} \right] \leftarrow \frac{1}{\text{day}} \quad \left[\frac{1}{30 \times 9} \right] \leftarrow \frac{1}{\text{units/day}}$$

$$\left[\frac{10}{27} \text{ units} \rightarrow \text{already} \right] + \left[\frac{1}{30 \times 9} \times 10 = \frac{10}{27} \right] \rightarrow \text{already}$$



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$$\left[\frac{10}{27} \text{ units} \rightarrow \text{already} \right] + \left[\frac{1}{30 \times 9} \times 10 = \frac{10}{27} \right] \rightarrow \text{already}$$

$$\left[\frac{10}{27} \text{ units} \right]$$



29:30 / 42:41

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Required:

$$\frac{1}{27} = \left[\frac{1}{18} \times \frac{x}{x} \times \frac{3}{2} \right] \rightarrow N.b.$$

$$\frac{1}{9} = \frac{x}{18} \therefore x = \frac{18}{3} \text{ men}$$

6 men completes the work in 18 days and 9 women takes 30 days to complete the same work. If 4 men and 10 women works for 10 days and only men are asked to complete the remaining work in 3 days, How many men would be required?

$$\frac{6 \times 9}{w_1} =$$

$$= \frac{4 \times 10}{w_2} \therefore w_2 = \frac{10}{27} w_1$$

+

$$\frac{9 \times 30}{w_1} =$$

$$= \frac{10 \times 10}{w_3} \therefore w_3 = \frac{10}{27} w_1$$



$$\text{mem} \boxed{\frac{27}{30}} = M = 2 \times \frac{9}{18} \times \frac{1}{27}$$

$$\boxed{\frac{20}{27} w_1}$$

$$w_1 - \frac{20}{27} w_1$$

$$= \boxed{\frac{7}{27} w_1}$$

$$\frac{M \times 3}{\frac{7}{27} w_1} = \frac{6 \times 18}{w_1}$$

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A, B and C completed a work of 30000Rs. A and B together completed $\frac{14}{20}$ th path of the work . How much amount will C get on completion of work?

30,000

$$1 - \frac{14}{20} \rightarrow \boxed{\frac{6}{20}}$$

$$\frac{3}{20} \times 30,000 = \underline{\underline{9000}} \text{ Rs Ans}$$



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A, B, C completed a work of 12000Rs. A, B and C worked for 4, 6 and 9 days respectively. If their daily wages are in the ratio 3:1:2. How much amount will A get on completion of work?

A B C

$\frac{3x}{\text{day}}$: $\frac{1x}{\text{day}}$: $\frac{2x}{\text{day}}$
 $x4$ $x6$ $x9$

$$12x : 6x : 18x = 12000$$

$$\frac{3x}{=} : \frac{2x}{=} : \frac{6x}{=} = 12000$$

$$11x = 12000$$

$$x = \frac{12000}{11}$$

$$\frac{12000}{11} \times 3 \Rightarrow \text{Ans}$$

