Aritimatic Seman
Percteatole Triwandysiss
-


$$
-\times 6{ }^{1}
$$

$$
400 \% \rightarrow \frac{5 \text { ties }}{\text { bues }}
$$

$R_{S} \rightarrow 1$ day 1
$R_{S} \rightarrow 2$ dayse each day in't rerenc, $R S \rightarrow 4 \operatorname{dm} 3$ in value.
$\operatorname{lesic}^{8} 8$ doy 4
$B \rightarrow 16$ dor 5

- 10 th day"' valuel? 15m $n$ - $n$,
Each dery 2 times.

$$
a=1, r^{=}-2 h m
$$

$$
\begin{aligned}
& a r^{n-1} \longrightarrow \begin{array}{l}
a=\text { furir raine } \\
r=\text { Nafito } \\
n=
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& n=10 \text { durs } \\
& \text { 1.(2) } 10-1=2^{9}=52
\end{aligned}
$$

$$
\begin{aligned}
& a=1, r=2 h \text { men } \\
& \text { (200 } \\
& 15 \log 3
\end{aligned}
$$

change of value $\$$ ovorall
Tinne men Hour efficiency froblems.
 5 been 10 loy gherer

$$
\begin{equation*}
M_{1} D_{1} H_{T}=M_{L} D_{2} H_{2} \tag{2}
\end{equation*}
$$

8 men 型dery 10 kr

$$
5 \cdot 10 \cdot 9=8 \cdot D_{2} \cdot 10
$$

$$
\begin{aligned}
& 5 \cdot 10 \cdot 9=8 \cdot D_{2} \cdot 10 \\
& \frac{5 \cdot 18 \cdot 9}{8-10}=\frac{45}{8}=5.6 \text { doy } \text { weoed. }
\end{aligned}
$$

Q
40 people 7 dras 20 penper (T)dous


$A \rightarrow$ Sorne wome $B \rightarrow$ Rest of the nork.
A Car do in $x$ days $\rightarrow \operatorname{Tog} a n(x+y)$ day $5 ?$
$B$ can do in $y$ danss $\rightarrow\left(\frac{x y}{x+y}\right)$ dans
(5) (7) $\underset{\frac{5.7}{5+7} \rightarrow\left(\frac{5}{2}\right)}{\left(\frac{15}{x+y}\right)}$ dans
$\# \rightarrow 2$ dans
$A$ alone $\rightarrow y$ days
Balone $\frac{\text { da }^{2} \text { s }}{\left(\frac{x y}{y-x}\right)}$ Lrpfoba.


$$
\operatorname{lix}_{\rightarrow \rightarrow z} \quad \frac{x y z}{(x y+y z+7 x)}
$$

$$
x_{1,2} \times x_{3} x_{4}
$$

(xy+クロт (n)


$$
\frac{x_{1} x_{2} x_{3} x_{4}}{\left(x_{1} x_{2} x_{3}+x_{1} x_{2} x_{4}+x_{3 x_{4} x_{1}}+x_{3} x_{4} x_{2}\right)}
$$

$\#$

$$
\begin{aligned}
& A+B \longrightarrow x \text { days } \\
& B+C \longrightarrow y \text { days } \\
& A+s+C \rightarrow\left(\frac{2 x y z}{x y+y z+z x}\right) \stackrel{\text { dans }}{\text { Con finith me wanin }} \\
& \text { ien hen } x, y, z \text {.. }
\end{aligned}
$$

Sumtre
(1) Sommons Day I theng
(A) weets (B)
mole fende
logh value $\rightarrow$ Low elfeizeng.
$\rightarrow$ Brnanat


Hone we con't pulye A 10010
effecievy forply
com rot qualisy.
(2) Dorit judye mik rea put to Realny.

$$
\begin{aligned}
& \underline{\text { Wages }} \rightarrow \text { Salary. } \\
& \text { (A) , } 32045 \\
& \text { (B) } \rightarrow \operatorname{lod} \operatorname{ms} s \in \\
& \left.\begin{array}{l}
R_{\rightarrow} 6 \\
R_{a b}-45 \\
f_{\omega} \rightarrow 70
\end{array}\right]
\end{aligned}
$$

(B) $\rightarrow \operatorname{codms}) \omega$

$$
30 \frac{60,45,30}{82,45,1}
$$

$$
\begin{aligned}
& \text { Wages Rath } \rightarrow \frac{1}{60}: \frac{1}{45}: \frac{1}{30} \\
& \rightarrow \frac{27 n 0}{69}: \frac{2700}{45}: \frac{2700}{30} \\
& \rightarrow 45: 60: 90 \\
& \rightarrow 3: 4: 6
\end{aligned}
$$

\# Tank folingy:

$$
\underset{\substack{h_{1} \\ h_{1} h_{1} \\ \text { mir }}}{m}
$$

(\#) $\quad h_{1}<h_{2}<h_{3}<h_{4}$
(h1) is wo wost effuient.
(h1) Both Pibe togeher $\rightarrow \frac{p_{1} p_{2}}{p_{1}+p_{2}}$

A hare can fill $\rightarrow 12$ hrs.
Leander the cotton front rena $\rightarrow 2$ her. If for the frultank the in -rape is sopped then howling it wal take to empirin?

$$
\frac{12 \times 24}{24-12}=\frac{12.24}{12}=24 h x
$$

$\#$
(4)

$$
\begin{aligned}
& A: B=\frac{10}{(3-1)}=2 \text { idas } \\
& B \rightarrow 3 \text { ams } A \rightarrow \text { dor } \\
& \begin{array}{l}
101 \\
6.0 \%-19^{6}
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& \text { but } 60 \quad 20 \mathrm{dars}
\end{aligned}
$$

$$
\begin{aligned}
& A \rightarrow \frac{1}{70} \quad B \rightarrow \frac{1}{90} \quad \begin{array}{l}
\frac{1}{30}+\frac{1}{90} \\
=\frac{4}{90}=\left(\frac{2}{45}\right)
\end{array}
\end{aligned}
$$

30 lms forl

