10)

$$A + B = 9$$

$$A = \frac{36}{3} = 12 \longrightarrow 3$$

$$B = \frac{36}{1} = 36 \longrightarrow 1$$

$$\overline{4 \times 9 = \boxed{36 = T.W}}$$

$$\boxed{\checkmark \; A = 12 \; days}$$

$$B = 36 \; days$$

13)

$$\boxed{60}$$

$$A = 10 \longrightarrow 6$$

$$B = 12 \longrightarrow 5$$

$$C = 15 \longrightarrow 4$$

$$\overline{15 \; \text{units/day}}$$

$$\Rightarrow 75\% \; q \; 60 = 45$$

$$A + B + C = \frac{45}{15} = \boxed{3 \; days}$$

16)

$$\boxed{180}$$

$$P = 20 \longrightarrow 9$$

$$Q = 30 \longrightarrow 6$$

$$R = 15 \longrightarrow 12$$

$$S = 45 \longrightarrow 4$$

$$\overline{31 \; \text{units/day}}$$

$$P + Q + R + S = \frac{180}{31}$$

18)
$A = 45 \longrightarrow 9$
$B = 81 \longrightarrow 5$

405

$\Rightarrow \dfrac{A}{B} = \dfrac{9}{5}$

$\overset{Eff}{} \qquad \overset{days}{}$

$\dfrac{5 \xrightarrow{\times 9} 45}{9 \xrightarrow{\times 9} 81}$

$\underline{A+B} = \dfrac{405}{14} = \boxed{28\dfrac{13}{14}}$

19)
$\dfrac{A}{B} = \overset{Eff}{\dfrac{3}{1}} \qquad \overset{days}{\dfrac{1}{3}} - 2 \xrightarrow{\times 30} 60$

90

$A = 30 \longrightarrow 3$
$B = 90 \longrightarrow 1$

$A+B = \dfrac{90}{4} = \boxed{22\dfrac{1}{2}}$

23)
$\dfrac{A}{B} = \dfrac{2}{1} \qquad \dfrac{C}{B} = \dfrac{2}{1}$

$(A : B : C)\ Eff = 2 : 1 : 2$

$A+B+C = 12 \xrightarrow{\times 5} 60\ (\text{মোট})$
(T.W.)

$A = \dfrac{60}{2} = 30\,days$

21)
$A = 6$
$\boxed{B = 3\,days} \Big) \times 3$
$A + B = 2$

24)

$(A : B : C)(Eff) = 6 : 3 : 1$ ⑥

$(A : B : C)(Days) = 1 : 2 : 6$

$\xrightarrow{\times 10} 10 \quad \xrightarrow{\times 10} 20 \quad \xrightarrow{\times 10} \boxed{60}$

$A = 10 - 6$ ⑥⓪

$B = 20 - 3$

$C = \dfrac{60 - 1}{10}$

$A + B + C = \dfrac{60}{10} = \boxed{6 \text{ days}}$

25)

$A + B = T$

$A = T + 3$

$B = T + 12$

$\dfrac{1}{A} + \dfrac{1}{B} = \dfrac{1}{A + B}$

$\dfrac{1}{T + 3} + \dfrac{1}{T + 12} = \dfrac{1}{T}$

$\dfrac{(T + 12) + (T + 3)}{T^2 + 12T + 3T + 36} = \dfrac{1}{T}$

$2T^2 + 15T = T^2 + 15T + 36$

$T^2 = 36 \qquad \boxed{T = 6}$