

$$5) (10M \times 20D) = (20B \times 20D) = \underline{400 \text{ unit}}$$

$\times 2$ $\times 1$

$$10M = 20B$$

$$1M = 2B$$

$$\boxed{\frac{M}{B} = \frac{2}{1}}$$

$$(8M + 4B) \times 20D = ?$$

$\times 2$ $\times 1$

$$20 \times 20 = 400$$

$$9) 1M \times 88D = 2W \times 88D = 3B \times 88D$$

$$1M = 2W = 3B \quad \text{---} \boxed{6}$$

$$\underline{M:W:B = 6:3:2}$$

$$T.W. = 1M \times 88D = \boxed{528}$$

$\times 6$

$$(1M + 1W + 1B) \times ? = 528$$

$\underset{6}$ $\underset{3}$ $\underset{2}$

$$11x = 528 \quad \boxed{x = 48 \text{ days}}$$

$$13) (1M + 1W + 1B) \times \underline{3D} = 1M \times \underline{6D} = 1C \times 18D$$

$$Man = \underline{50\%} = \frac{1}{2}$$

$$Child = \frac{3}{18} = \frac{1}{6} = \underline{16.66\%}$$

$$Woman = \frac{1}{3} = 33.33\%$$

$$\begin{array}{r} 1 \text{ ————— } 3 \\ \hline 3 \text{ ————— } \boxed{9 \text{ day}} \end{array} \quad 100\%$$

$$14) \underline{(3M + 4B) \times 12 D} = (4M + 3B) \times 10 D$$

$$\underline{36M + 48B = 40M + 30B}$$

$$18B = 4M$$

$$\boxed{\frac{M}{B} = \frac{9}{2}}$$

$$T.W. = (4M \times 9 + 3B \times 2) \times 10 = 420$$

$$(2M \times 9 + 3B \times 2) \times 7 = 420$$

$$24\lambda = 420$$

$$\lambda = \frac{420}{24} = \frac{70}{4} = 17\frac{2}{4} = \boxed{17\frac{1}{2}}$$

$$12) 1M \times 20D = 1W \times 30D = 1C \times 60D$$

$$\boxed{60}$$

$$M : W : B = 3 : 2 : 1$$

$$T.W. = 1M \times 20D = 60$$

$$(2M \times 3 + 8W \times 2 + 1B \times 1) \times 2 = 60$$

$$22 + \lambda = 30$$

$$\boxed{\lambda = 8}$$

$$16) 28M \times 15D = 15W \times 24D$$

$$\frac{M}{W} = \frac{15 \times 24}{28 \times 15} = \frac{8}{7}$$

$$\frac{30M \times 1D}{18W \times 1D} = \frac{30 \times 6}{18 \times 7} = \frac{10}{7}$$

$$17) 12M \times 36D = 12W \times 48D$$

$$\frac{M}{W} = \frac{48}{36} = \frac{4}{3}$$

$$T.W = 12M \times 36D = 48 \times 36$$

$$\Rightarrow (10M + 8W) \times \chi = 48 \times 36$$

$$\chi = \frac{48 \times 36}{64} = 27 \text{ days}$$

$$18) (3M + 4W + 6C) \times 7D = T.W$$

$$M : W : C = 2 : 4 : 1$$

$$T.W. = \underbrace{(3M)}_{\times 2} + \underbrace{4W}_{\times 4} + \underbrace{6C}_{\times 1} \times 7D = 28 \times 7$$

$$\cancel{2W} \times \cancel{7D} = 28 \times \cancel{7}$$

$\times 4$

$$4x = 28$$

$$\boxed{x = 7 \text{ women}}$$

$$19) 4M \times \underline{7H} \times \underline{12D} = 6W \times \underline{7H} \times \underline{12D}$$

$$4M = 6W$$

$$\frac{M}{W} = \frac{3}{2}$$

$$T.W_o = 4M \times 7H \times 12D$$

$$\Rightarrow \boxed{12 \times 7 \times 12 = T.W}$$

$$8H \left[\left(\underset{\times 3}{10M} + \underset{\times 2}{3W} \right) \right] \times x = (12 \times 7 \times 12) \times 2$$

$$\cancel{36} \times 8 \times x = 12 \times 7 \times \cancel{12} \times 2$$

$$\boxed{x = 7 \text{ days}}$$

$$10) x + y + z = \frac{2700}{18} = 150 \checkmark$$

$$x + z = \frac{940}{10} = 94 \checkmark$$

$$\boxed{y = 56}$$

$$y + z = \frac{1520}{20} = 76$$

$$\boxed{z = 20}$$

$$\boxed{x = 74}$$

$$150$$

$$12) \quad 1325 - 920 = \frac{805}{7} = \boxed{115} \checkmark$$

$$15) \quad P = \frac{1}{3} \frac{5}{15}$$

$$Q = \frac{1}{4} \frac{6}{24}$$

$$P = 15 - 8$$

$$Q = 24 - 5$$

$$Q = \frac{5}{13} \times \overset{30}{390} = \boxed{150}$$

Piped 2 cistern

(60)

$$A = 30^+ \text{ --- } 2$$

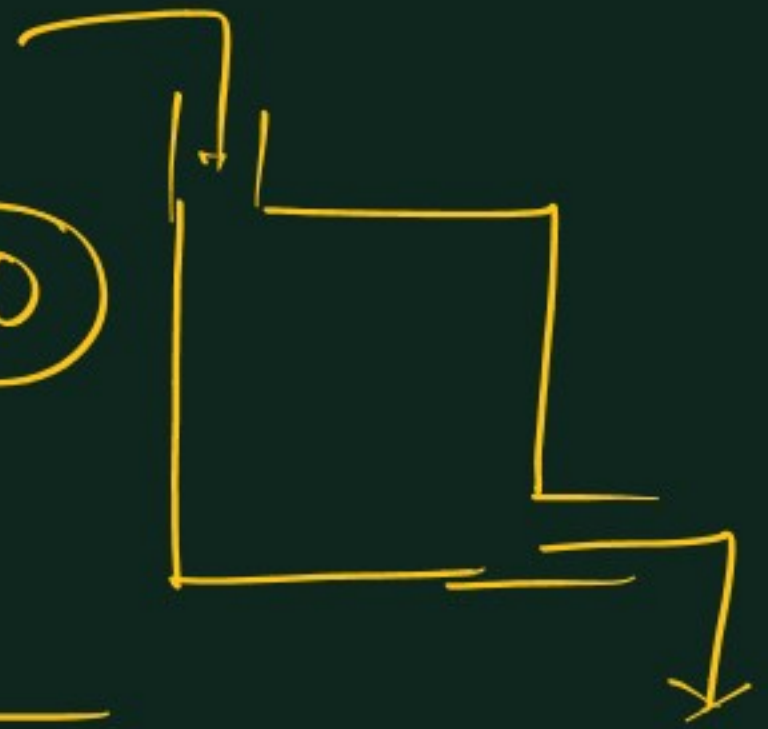
$$B = 20^+ \text{ --- } \frac{3}{5}$$

$$A + B = \frac{60}{5} = \underline{12 \text{ hrs}}$$

$$A = 30^+ \text{ --- } 4$$

$$B = 40^- \text{ --- } \frac{-3}{1}$$

$$(+A) - (B) = \frac{120}{1} = \underline{120 \text{ hours}}$$



$$A = 30 \text{ --- } 1^+ \text{ (30)}$$

$$B = \text{ --- } -4^-$$

$$A^+ - B^- = 10 \text{ --- } 3^-$$

$$1 - 2 = -3$$

$$P = 4$$

$$B = \frac{30}{4} = \underline{7.5}$$

$$A^+ = 30 \text{ --- } 2^+ \text{ (60)}$$

$$B^- = 20 \text{ --- } 3^-$$

$$C^+ = \frac{60}{7} \text{ --- } 7$$

$$A + B + C = 10 \text{ --- } 6^+$$

$$A - B + C = 6$$

$$2 - 3 + C = 6$$

$$\boxed{C = 7}$$