

J

$$70+75+80=225$$

$$\therefore \frac{225}{3} = 75$$

$$\text{Ans} = 75$$

②

$$10+12+14+16+18=70$$

$$\therefore \frac{70}{5} = 14$$

$$\text{Ans} = 14$$

③

$$10 \text{ kg} \times 5 = 50 \text{ kg}$$

$$\text{Ans} = \underline{50}$$

④

$$2 \text{ h / day}$$

$$2 \times 5 = 10 \text{ hrs}$$

$$\text{Ans} = 10$$

⑤

$$1 \text{ hr}$$

$$\frac{1}{4} = \text{fourth}$$

$$\therefore \frac{1}{4} \text{ of } 1 \text{ hr}$$

$$\textcircled{6} \quad 1 \text{ wall} = 8 \text{ hrs.}$$

$$\frac{1}{3} = \frac{1}{3} \frac{\text{wall}}{\text{hour}}$$

$$\frac{1}{3} \times 2 = \frac{2}{3}$$

$\therefore \frac{2}{3}$  of wall in 2 hr.

$$\textcircled{7} \quad 6 \text{ workers} \times 8 \text{ days} = 48 \text{ worker-days}$$

$$1 = \frac{1}{48}$$

$$\text{Ans} = \frac{1}{48}$$

$$\textcircled{8} \quad 15 \times 6 = 90$$

$$\therefore \text{Ans} = 90$$

$$\textcircled{9} \quad 50 \times 4 = 200.$$

$$\therefore \text{Ans} = 200$$

$$\textcircled{10} \quad 4 \times 12 = 48$$

$$\therefore \frac{48}{2} = 24 \text{ days}$$

$$\textcircled{11} \quad 8 \times 10 = 80 \text{ works}$$

$$\frac{80}{10} = 8 \text{ days}$$

Ans: 10 will take 8 days

\textcircled{12} Time B takes alone:

$$\frac{1}{12} - \frac{1}{20} = \frac{5-3}{60} = \frac{2}{60}$$

$$= \frac{1}{30}$$

\therefore 30 day B alone

\textcircled{13}  $\frac{1}{15}$  house/day,

$\frac{1}{20}$  house/day,

$$\therefore \frac{1}{15} + \frac{1}{20} = \frac{4+3}{60} = \frac{7}{60}$$

$$= \frac{60}{7} = 8.5$$

$$\textcircled{14} \quad 5 \times 20 = 100$$

$$\text{Sum} = 5 \times 18 = 72$$

$$100 - 72 = \underline{\underline{28}}$$

(15)

$$10 \times 30 = 300 \text{ kg}$$

leaving is

$$25 + 35 = 60$$

calculate total weight

$$300 - 60 = 240 \text{ kg}$$

Calculate new number of students

$$10 - 2 = 8$$

$$\text{average} = \frac{240}{8} = 30 \text{ kg}$$

(16)

$$\frac{1}{6} + \frac{1}{8} + \frac{1}{12} = \frac{1+3+2}{24} = \frac{6}{24} = \frac{1}{4}$$

$$\therefore \text{Avg} = \frac{8}{3}$$

(17)

$$8 \times 35 = 280,$$

$$20 + 45 + 50 = 115$$

$$\therefore \text{Sum} = 280 + 115 = 415$$

$$\therefore \text{item} = 8 + 3 = 11$$

$$\text{Avg} = \frac{415}{11} = 37.7$$

$$\textcircled{18} \quad 10 \times 25 = 250$$

$$\therefore 250 - 50 = 210$$

$$\therefore 10 - 1 = 9$$

$$\text{Avg.} = \frac{10}{9} =$$

\textcircled{19}  $\frac{1}{15}$  then for 8 day

$$\frac{5}{15} = \frac{1}{3} \text{ of work}$$

$1 - \frac{1}{3} = \frac{2}{3}$  of work is left.

$$\textcircled{20} \quad \text{Sum} = 7 \times 30 = 210$$

$$1 \rightarrow h_2 \quad , \text{then} \\ 210 - h_2 = 168$$

$$\text{Avg.} = \frac{168}{6} = 28$$

$$\text{Ans} = 28$$

$$\textcircled{21} \quad A = \frac{1}{2n} \quad ; \quad \text{Avg.} = \frac{5+4+3}{120} = \frac{12}{120} = \frac{1}{10}$$

$$B = \frac{1}{30}$$

$$C = \frac{1}{40}$$

$$5 \text{ days} = 5 \times \frac{1}{10} = \frac{1}{2}$$

$$\text{work} = 1 - \frac{1}{2} = \underline{\underline{\frac{1}{2}}}$$

(Q2)

$$A+B = \frac{1}{10}$$

$$B = \frac{1}{15}$$

$$\text{Total} = 1$$

$$A = x$$

$$W = \frac{x}{30}$$

$$\frac{12-x}{10} + \frac{x}{30} = 1$$

$$\therefore x = 3 \text{ days}$$

(Q3)

$$\text{Sum} = 10 \times 50 = 500$$

\$20 & -10 \text{ then } +10

$$\text{Sum} = 510$$

(Q4)

$$\text{Avg} = \frac{510}{10} = 51$$

(Q5)

$$\text{Fill rate} = \frac{1}{8}$$

$$\text{Empty rate} = -\frac{1}{12}$$

$$\text{net rate} = \frac{1}{8} - \frac{1}{12} = \frac{3-2}{24} = \frac{1}{24}$$

$$\text{Time to fill} = \frac{1}{\frac{1}{24}} = 24 \text{ hrs.}$$

$$\textcircled{25} \quad A = \frac{1}{10}, \quad B = \frac{1}{15}, \quad C = \frac{1}{20}$$

$$1 \text{ day} = \frac{6+4+3}{60} = \frac{13}{60}$$

$$1 \text{ day} = \frac{H \times 13}{60} = \frac{52}{60} = \frac{13}{15}$$

$$\text{work} = \frac{2}{15}$$