

GROUP (or) COMBINED WORK

$$\frac{N_1 \times D_1 \times R_1 \times E_1}{W_1} = \frac{N_2 \times D_2 \times R_2 \times E_2}{W_2} \quad /$$

N_1, N_2 = NO. of workers (or) NO. of machines

D_1, D_2 = Time of work

R_1, R_2 = Rate of work of worker or machines

E_1, E_2 = Efficiencies of machines

W_1, W_2 = Amount of work

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$$5. \quad \frac{104 \times 30 \times 5}{\frac{2}{5}} = \frac{N_2 \times 26 \times 9}{\frac{83}{5}}$$

$$N_2 = 160$$

$$\therefore 160 - 104$$

$$= 56 \text{ days}$$

56 days

104 mens, 8 hrs/db

30 days

6.

$$\frac{2 \times 8 \times 12 \times 90}{9000} = \frac{3 \times 6 \times R_2 \times 80}{12000}$$

$$R_2 = 16 \text{ hrs/day}$$