

08/04

1. $4M + 6W = 8$ 1 day work

$4 \times 3M + 7W = 10$

$$\begin{array}{r} 12M + 18W = 24 \\ \text{---} \\ 12M + 28W = 40 \\ \text{---} \\ 10W = 16 \end{array}$$

$$W = \frac{16}{10}$$

$$\boxed{W = 8/5}$$

$$4M + 6 \times \frac{8}{5} = 8$$

$$4M = 8 - \frac{48}{5}$$

$$4M = 40 - \frac{48}{5}$$

$$4M = \frac{-8}{5}$$

$$\boxed{M = 2/5}$$

10 women

$$\Rightarrow 10 \times \frac{8}{5}$$

$$\Rightarrow 1/40 \Rightarrow \boxed{40 \text{ days}}$$

2. $\frac{10 \times 4 \times 200}{300} = \frac{16 \times 6 \times 32^8}{20}$

$$x = \frac{16 \times 6 \times 8 \times 32^8}{10 \times 200^8} \Rightarrow 122.8$$

$$\Rightarrow \boxed{123}$$