



(Maths)

Time and Work

RRB (PO) – PRE

Expected Questions:

Ques(1): 3 Men or 4 women can do a piece of work in 43 days. In how many days 7 men and 5 women can do the same work?

Sol:

$$3M \text{ or } 4 W = 43$$

$$7M + 5W = ?$$

$$M_1 D_1 = M_2 D_2$$

$$3M \times 43 = (7M + 5W) \times D_2$$

$$129M = \left(7M + \frac{15}{4}M\right) \times D_2$$

$$D_2 = 12 \text{ days}$$

Trick:

$$D = \frac{a \times b \times d}{xb + ya}$$

$$D = \frac{3 \times 4 \times 43}{4 \times 7 + 3 \times 15} = 12 \text{ days}$$

a= Number of men

b= Number of women

x=number of new men

y= Number of new women