Aptitude Assignment 6.

① A does 4th of work → in 3/5 of time B.

Work = Time x Efficiency

$$\frac{\left(A \times \frac{3}{5}\right)}{\frac{3}{4}} = \frac{B \times 1}{1}$$

$$A \times \frac{3}{5} \times \frac{4}{3} = 8$$

W= 2/3

They can complete the whole work together in 12 days $(5+4) \times \times 12 = 108 \times$

Time taken by A alone to complete the work = 108x = 21.6 days

Answer: 21.6 days

1 M + 3 W + 4c . 2M +8C 10M+5W 2M + 3W 96 hours 80 hours 120 hours 10M+5W 6 = 10X1 + 5X 2/3 480 = 10 + 10 = 30 + 102M+6C = 6. = 40/3 2M+3W=4 M+4c = 3 2M+3×2/3=4 1M+ 3W+4c= 5 2M=4 3+3N = 5 M=1 3W=2

Work = Time x Efficiencey

Teme =
$$\frac{\text{Work}}{\text{Afficiency}} = \frac{\frac{12}{480}}{40/3} = \frac{12}{480 \times 3} = 36 \text{ hours}.$$

10 men and 5 women complete the work in 36 hours

Answer: 36 hours

(3) Sale forceased by $57\frac{1}{7}$ % = $(51\times7)+1=400=57\cdot14\cdot1$.

Price of ticket increased by $16\frac{2}{3}$ = $(16\times3)+2=50=16\cdot66\cdot1$.

Let price = 100

Sale = 200

Revenue = paice x sale = 100 x 200 = 20000 Rs

Paice = $\frac{116.66}{100} \times 100 = 116.66$

Sale = 157.14 x 200 = 314.28

Revenue = 116.66×314.28 = 36664 Rs

1- increase in Revenue = 36664 - 20000 plot = 83-32.1.

Answer: 83.32.1.

@ 1600 soldiers

60 days

900 grams of food every day

Total food Available = 1600 x 60 x 900 = 86400 kg

Food consumed the 40 days = 1600 x 40 x 900 = 57600 kg

Food available after 40 days = 86400 - 57600 = 28800 kg

sordiers available after 40 days= 1600-400 = 1200

if remaining soldiers consume 1000 g per day find well remain for $= \frac{28800}{1200 \times 1} = 24 \text{ days}$

Answer : 24 days

5 Let CP = x

 6 6

S.P = 110 x 2

then deader would have

if the bij cycle sold for new SP +60 he would be in 251.

is new SP - old SP = 60

$$\left(\frac{90}{100} \times 2 \times \frac{125}{100}\right) - \left(\frac{110}{100} \times 2\right) = 60$$

1-1252 - 1-12 = 60

CP = 2 = 60 = 2400 Rs

Answer: 2400 Rs