Aptitude Assignment - 4

1. Work done / water emptied by leak in 1 hours = 1/6.

Water emptied by leak & Enlet pipe &n 1 hour = 1/8

Workdone by Enlet pipe alone in 1 hour =  $\frac{1}{6} - \frac{1}{8} = \frac{4 - 3}{24} = \frac{7}{24}$  if time required to fill the tank when inlet is open is 24h rate of inlet pipe is 4 ltr per minute

24 hour = 24x60 = 1440 min

Capacity of the tank = 4 x 1440 L = 5760 Litre.

Answer: 5760 Litre

1000 Enhabitants

601 = 60 x 1000 = 600 Male

2011 = 20 x 1000 / 200 létérate

20/ of male are literate = 20 x 600 = 120 male léterate.

251 et literate of all inhabitant = 25 x 1000 = 250 total literates

female literates are = 250-120 = 130

J. of female literates core =  $\frac{130}{250}$  x 100 = 52.1. out of all literates

1. 04 ferrale literates = 130 × 100 = 32.5.1. out of all females.

Answer: 32.5.1.

passed in English = 80.1.

passed in Mathematics = 85.1.

passed in English & mathematics = 73.1.

Let number of Candidate be 100.

English Mathematics

80 93 85

Total number of candidates passed = 80 + 85 - 73 = 92 / 100 = 92 / 100Total number of candidates failed = 100 - 92 = 8 / 100 = 8 / 100Percentage of candidate failed in both the Subject is 8 / 100.

Monthly expenditure before =  $13500 \, \text{Rs}$ monthly expenditure before =  $9000 \, \text{Rs}$ monthly savings before =  $13500 - 9000 = 4500 \, \text{Rs}$ monthly income after =  $\frac{114}{180} \times 13500 = 15390 \, \text{Rs}$ Monthly expenditure after =  $\frac{107}{100} \times 9000 = 9630 \, \text{Rs}$ Monthly savings after =  $15390 - 9630 = 5760 \, \text{Rs}$ Percintage increase in Savings is =  $\frac{5760 - 4500}{4500} \times 100 = 281$ .

Answer: 28 f

H9 pumps - 10 days - working 10 hours

T0 pumps - ? days - working 7 hours  $49 \times 10 \times 10 = 70 \times ? \times 7$ 

 $\frac{2}{70\times7} = \frac{49\times10\times10}{70\times7} = 10 \text{ days}$ 

Answer: 10 days