

Q #6

a)

Farmer cut a fence, 300ft

piece = 2

smaller piece = x

longer piece = $4x$

According to given cond. $x + 4x = 300\text{ft}$

$$5x = 300$$

$$x = 60$$

According to given cond.

$$x + 4x = 300$$

$$5x = 300$$

smaller piece $x = 60$

longer piece $4x = 4(60)$
 $= 240$

~~$x = 60$~~

b)

length = $x = 3(2y) \rightarrow \textcircled{1}$

width = y

According to given condition

$$2(3(2y) + y) = 20$$

$$2(6y + y) = 20$$

$$2(7y) = 20$$

$$14y = 20$$

$$y = \frac{10}{7}$$

bs

$$x = 3(2y)$$

$$x = 6y$$

$$x = 6 \times 10$$

$$x = \frac{60}{7}$$

c)

Cricke team win matches = 60%

40% loses matches = 24

$$40\% = 24$$

$$1\% = \frac{24}{40}$$

$$1\% = 0.6$$

$$60\% = 0.6 \times 60$$

$$60\% = 360$$

60% matches win = 360

d)

Two number ration : 3:2 $\Rightarrow x:y::3:2$ ①

suppose 1st ~~one~~ number = x

2nd ~~one~~ number = y

~~x = y~~

Q#7;

a)

Total seat = 400

Occupied = 325

Available = 75

$$\text{percent of capacity} = \frac{75}{400} \times 100$$

$$= 18.75\%$$

Q#7(b)

person	sugar weigh (kg)	days
↓ 30	40 ↑	10 ↑
↓ 80	320 ↑	x ↑

$$\frac{30}{80} \times \frac{320}{40} = \frac{x}{10}$$

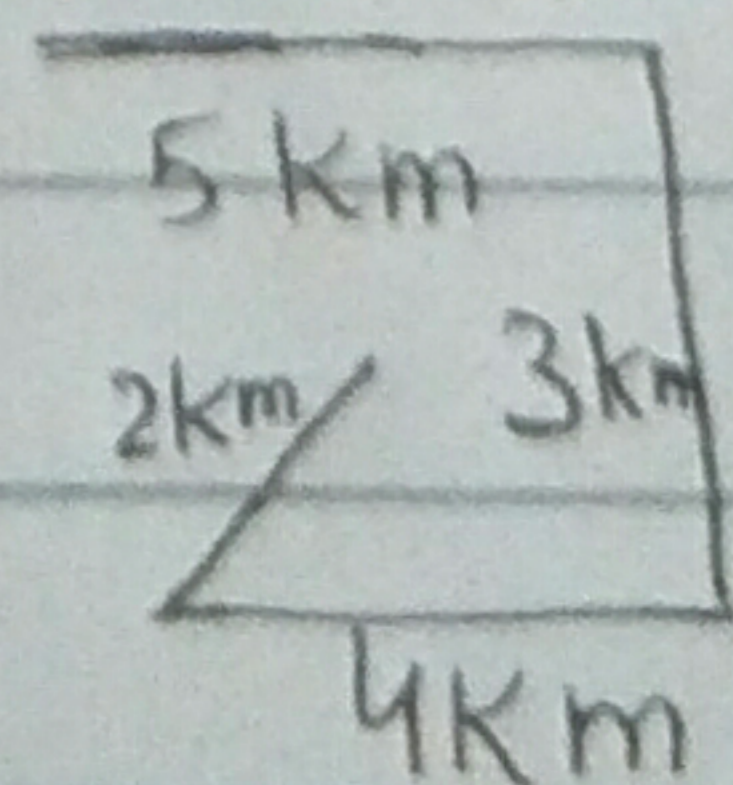
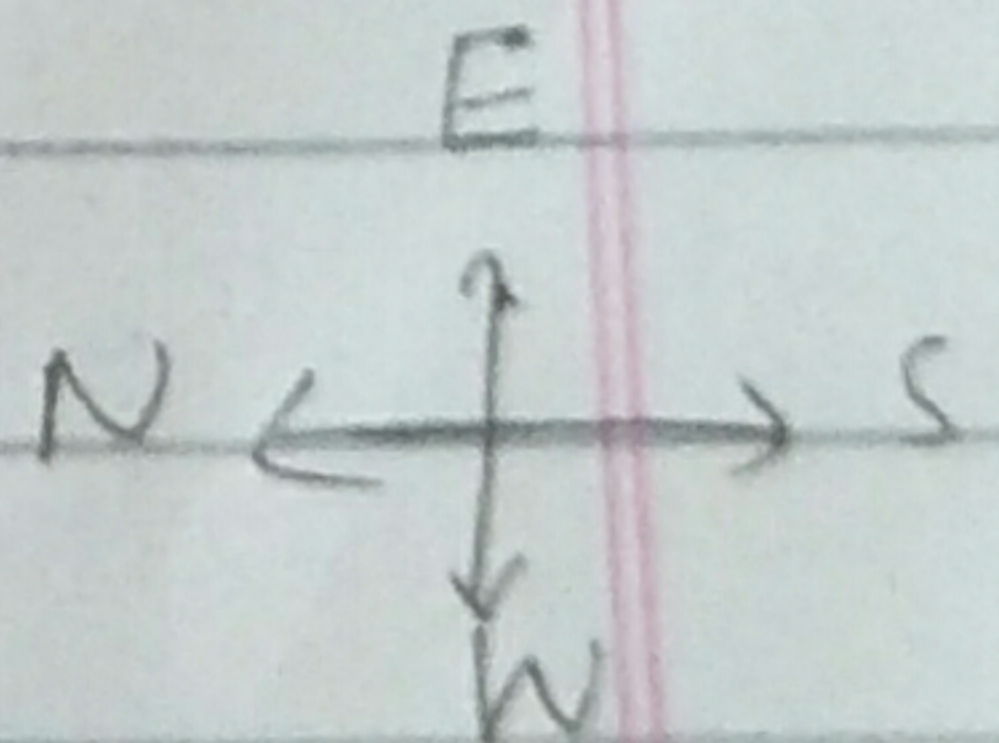
$$x = 3 \times 10$$

$$x = 30$$

Q#7(c)

$$5 + 3 + 4 + 2$$

$$13 \text{ km}$$



(d) Q#7

Given Data

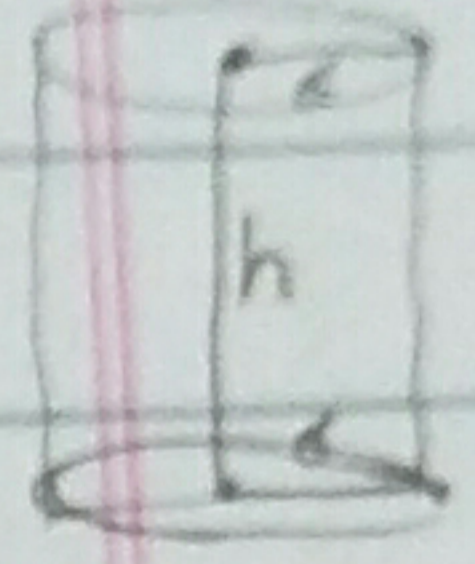
$$\text{radius} = 10\text{cm}$$

$$h = 36\text{cm}$$

$$V = ?$$

Formula

$$V = \pi r^2 h$$



Solution

$$V = \frac{22}{7} \times 10 \times 10 \times 36$$

$$= \frac{79200}{7}$$

$$= 11314.3 \text{ cm}^3$$