

10 in mcqs.

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Section - II

Q No. 6

a)

$$x + y + z = 15 \text{ --- (A)}$$

$$\text{let } \boxed{x = 10}$$

$y =$ unit digit

$$x + y = 10 + y = 12 \text{ --- (1)}$$

$$10 - y = 2 \text{ --- (2)}$$

subtracting ~~Adding~~ eq (1) and (2)

$$10 + y - 10 + y = 12 - 2$$

$$2y = 10$$

$$\boxed{y = 5}$$

Substituting in eq (A)

$$10 + 5 + z = 15$$

$$15 + z = 15$$

$$\boxed{z = 0}$$

The three digits are 10, 5, 0

|| ————— ||

b)

Small : medium : large

2 : 3 : 4 (slices)

Small pizza = $2 \times 40 = 80$ gram

Small pizza = 320 rupees.

Total pizza in weight and price ?

Total weight = $2 \times 40 + 3 \times 40 + 4 \times 40$

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$$= 80 + 120 + 160$$

Total weight = 360 gram.

Puze.

$$\text{Small} = 320$$

~~Puze~~

~~size~~

~~piece~~

~~small~~

$$\text{if } 2 \text{ piece} = 320$$

$$\text{then } 1 \text{ piece} = 160$$

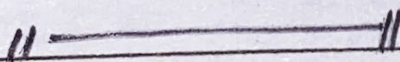
$$3 = 480$$

$$4 = 640$$

$$\text{Hence total puze } 320 + 480 + 640 \\ = 1440$$

$$\text{Total puze} = 1440$$

$$\text{Total weight} = 360 \text{ gram.}$$



$$2r = 6 \text{ cm}$$

$$\text{circumference} = 2\pi r = ?$$

$$\text{Area of circle} = \pi r^2 = ?$$

$$r = 3 \text{ cm}$$

$$\text{circumference} = 2(3)(3.14) \times 10^{-2} \text{ m}$$

$$= 18.84 \times 10^{-2} \text{ m}$$

$$= 0.188 \text{ m}$$

$$\text{Area} = (3.14)(3 \times 10^{-2})^2 \text{ m}$$

$$= 28.26 \times 10^{-4} \text{ m}$$

$$\begin{array}{r} 2 \\ 3.14 \\ \hline 6 \\ 18.84 \end{array}$$

$$\begin{array}{r} 3 \\ 1314 \\ \hline 9 \\ 2826 \end{array}$$

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$$2 \cdot 0028 \text{ m.}$$

Hence

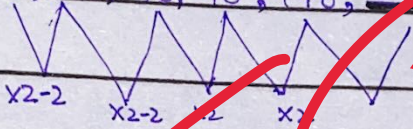
$$\text{Circumference} = 18.84 \text{ cm} = 0.188 \text{ m}$$

$$\text{Area} = 28.3 \times 10^{-7} \text{ m}^2 = 0.0028 \text{ m}^2$$

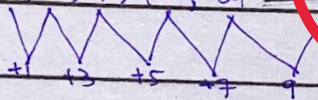
|| ————— ||

d)

13, 24, 46, 90, 178, 354.



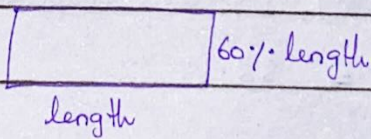
5, 6, 9, 14, 21, 30



|| ————— ||

Q No. 6.

a)



$$\text{length} = 15 \text{ ft}$$

$$\begin{aligned} & 60\% \times 15 \\ &= \frac{3}{5} \times 15 \\ &= 9 \end{aligned}$$

$$= 9 \text{ ft.}$$

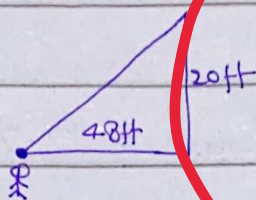
$$\text{Hence length} = 16 \text{ ft}$$

$$\text{width} = 9 \text{ ft}$$

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b)



$$H^2 = B^2 + P^2$$

$$H^2 = (48)^2 + (20)^2$$

$$H^2 = 2304 + 400$$

$$H^2 = 2704$$

$$H = 52$$

Sqrt on both sides

$$H = 52$$

hence Veena would have run 52ft straight there from where she started.

c)

Average marks of 40 students = 52.15

Instead of 49, 85 was calculated

$$\frac{\text{Sum}}{40} = 52.15$$

$$\text{Sum} = 52.15 \times 40$$

$$\text{Sum} = 2086$$

$$\text{Sum} - 36 = 2086 - 36$$

$$= 2050$$

Hence the new average = $\frac{2050}{40}$

Correct Average marks = 51.25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

13
15
18
18
19

3
8
04

23
91

3
9
13
4
52
114

384

2304

20
20
00
400

2 | 2704
2 | 1352
2 | 676
2 | 338
13 | 169
13

2704
↓
2

52
52
104
600
2704

2
2.15
40
0000
208600
208600

85
-49
36

51.25
4 | 2050
20
5
4
10
8
20

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d)

Vegetable Pizza liked by = 37

Chicken Pizza liked by = 25

None of the Pizzas liked by = 3

$$P(\text{Chicken pizza}) = \frac{25}{65}$$

$$= \frac{5}{13}$$

The probability that the chosen person would like chicken pizza is 0.38 or $\frac{5}{13}$.

$$\begin{array}{r} 2 \overline{)13} \\ \underline{8} \\ 10 \end{array}$$

$$\begin{array}{r} 2 \overline{)13} \\ \underline{8} \\ 10 \overline{)39} \\ \underline{2} \\ 13 \overline{)52} \\ \underline{11} \\ 41 \end{array}$$

$$13 \overline{)50} \\ \underline{39} \\ 11 \overline{)110} \\ \underline{110} \\ 0$$

Good attempt

In some answers you didn't follow the proper method such as Given data

To find out ?

Solution:

Follow it.