

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 = 320uppees.

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.

$$\text{Small} = 320$$

~~Pizza~~ ~~size~~ ~~price~~

~~small~~

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

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

$$3 = 480$$

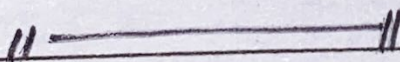
$$4 = 640$$

Hence total puze $320 + 480 + 640$

$$= 1440$$

Total puze = 1440

Total weight = 360 gram.



g)

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

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

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

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

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

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

$$= 0.188 \text{ m}$$

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

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

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

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

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

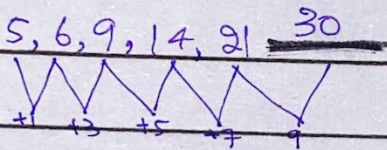
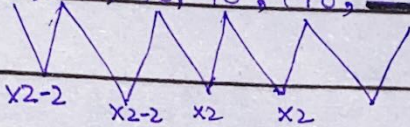
Hence

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

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

|| ————— ||

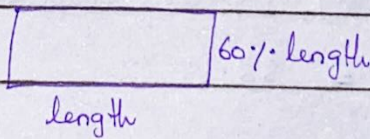
d) 13, 24, 46, 90, 178, 354.



|| ————— ||

Q No. 6.

a)



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

$$60\% \times 15$$

$$= \frac{3}{5} \times 15$$

$$\frac{100}{100}$$

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

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

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

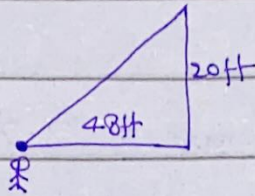
$$\begin{array}{r} 24 \\ \underline{2} \\ 48 \\ \underline{46} \\ 86 + 4 \\ \underline{2} \\ 90 \\ \underline{180} \\ 178 \\ \underline{\times 2} \\ 356 \end{array}$$

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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
27
28
29
30
31
32
33
34
35
36

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 = $52 \cdot 15$

Instead of 49, 85 was calculated

$$\frac{\text{Sum}}{40} = 52 \cdot 15$$

$$\text{Sum} = 52 \cdot 15 \times 40$$

$$\text{Sum} = 2086$$

$$\begin{aligned} \text{Sum} - 36 &= 2086 - 36 \\ &= 2050 \end{aligned}$$

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

$$\text{Correct Average marks} = 51.25$$

13
5
13x
149

6
48
48
384
3192x
2304

20
20
00
40x

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

2704
↓
2
52
52
104
260x
2704

2
52.15
40
0000
20860x
208600

85
-49
36

51.25
4 | 2050
20
5
4
10
0
20

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d)

Vegetable Pizza liked by = 37

Chicken Pizza liked by = 25

None of the Pizzas liked by = 3

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

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

$$13 \overline{) 50} \begin{array}{r} .38 \\ \underline{39} \\ 110 \\ \underline{104} \\ 60 \end{array}$$

$$\begin{array}{r} 213 \\ \underline{8} \\ 105 \end{array}$$

$$\begin{array}{r} 213 \\ \underline{91} \\ 133 \\ \underline{39} \\ 133 \\ \underline{114} \\ 19 \end{array}$$

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