Question: 1.

(A)

Let there was x number of Boys which is equal to girls

Previous condition

B : G

Previous = $x : x$

Current = $x : x+15$

So ratio = $4 : 5$

$5x = 4(x+15)$

$5x = 4x + 60$

$5x - 4x = 60$

$\boxed{x = 60}$ no. of boys invited earlier.

As Girls are equal to boys

So Total Students invited were = 60 + 60 = 120

Or B

3/

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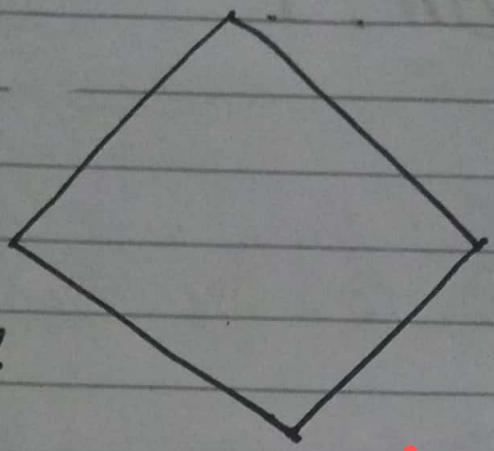
(C)



Rhombus

for calculating perimeter

$P = 4(a)$ ✓

$P = 4(6)$

$\boxed{P = 24\,cm}$

(D)

6, 17, 39, 72, ...

6×2+5, 17×2+5, 39×2-6, 72×2-6

6, 17, 39, 72, 138, ...

$\boxed{138}$ Ans

Q#2

(A)

B R O T H E R

Q D G S N Q A

So As per the given code

S and T can be replaceable

R & A are equal

E & Q are equal

In order to find I equivalent if we took Alphabet 'of

O = O has a distance of 8

H = N has a distance of 6

Thus

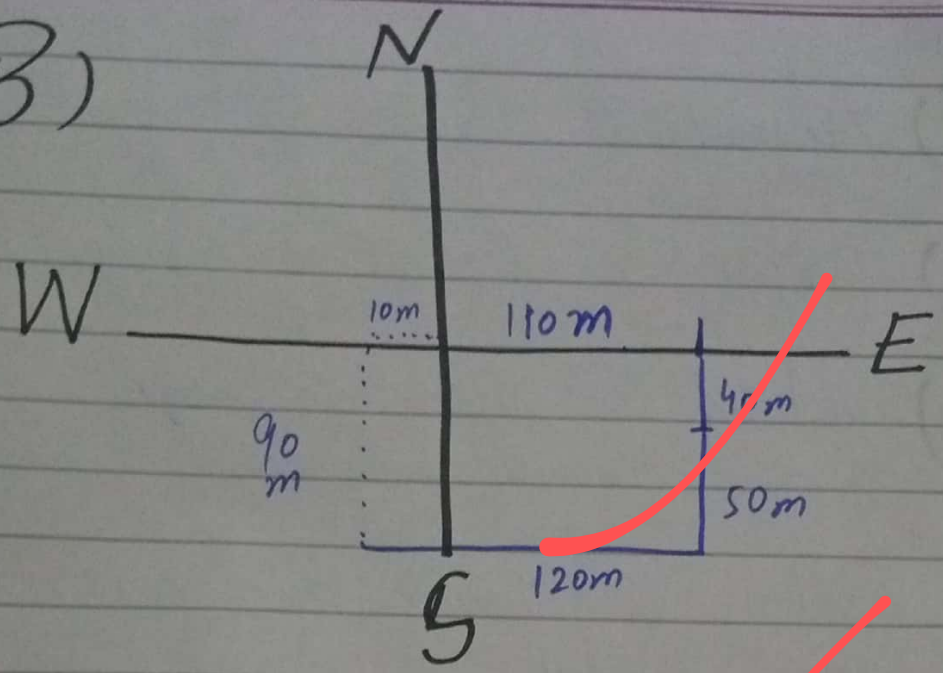
I = M has a distance of 4

Thus

S I S T E R

T M T S Q A

(B)



90m + 10m = 100m away from starting point.

(C) Let the weight of

Shahbaz = x

then

Nasir = $\frac{1}{2}x$

ARbar = $\frac{1}{4}x$

Ali = $5\left(\frac{1}{4}x\right) = \frac{5}{4}x$

Ahmad = $3\left(\frac{5}{4}x\right) = \frac{15}{4}x$

(i) Ahmad is heaviest in weight

(ii) Akbar is lightest in weight

(iii) Shehbaz is lighter in weight from Ali and Ahmad

(iv) Shehbaz is heavier than Nasir and Akbar

(v) Decending order of weight

$\frac{15}{4}x$ → Ahmad

$\frac{5}{4}x$ → Ali

x → Shehbaz

$\frac{1}{2}x$ → Nasir

$\frac{1}{4}x$ → Akbar

(——)

(D)

Area of lounge $\Rightarrow A = 8 \times 6 = 48\ m^2$

Area of one tile $\Rightarrow A = \frac{1}{2} \times b \times h = \frac{1}{2} \times 4 \times 12 \Rightarrow$

$\Rightarrow$ 24 cm i.e 0.24 m

$$\text{No. of Tiles Required} = \frac{\text{Total area}}{\text{are of one tile}}$$

$$= \frac{48}{0.24}$$

$$\Rightarrow \frac{48^{2} \times 100}{24}$$

$$= 200$$

Price of one tile = Rs. 15

Price of 200 tiles

200×15

Rs. 3000 Ans