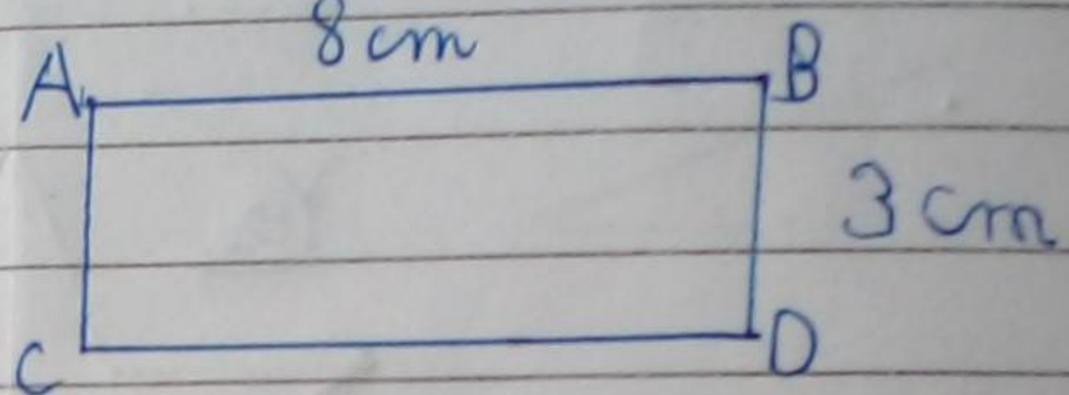
Exercise - 14 (A)

1. Find the perimeter of the figures given bel

a)



Length = 8 cm, Breadth = 3 cm

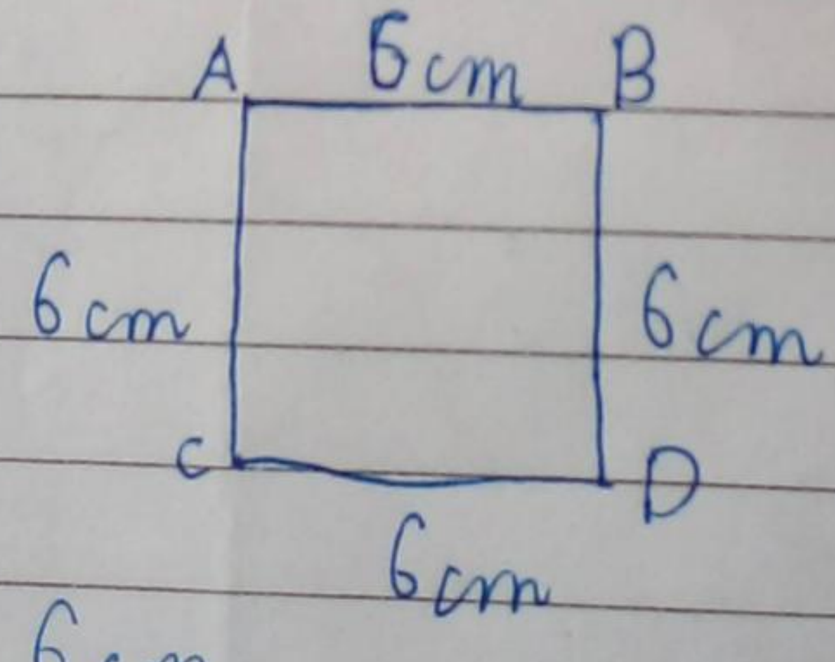
Perimeter = 2 × (length + breadth)

= 2 × (8+3)

= 2 × 11

= 22 cm

b)



Side = 6 cm

Perimeter = AB + BD + DC + CA

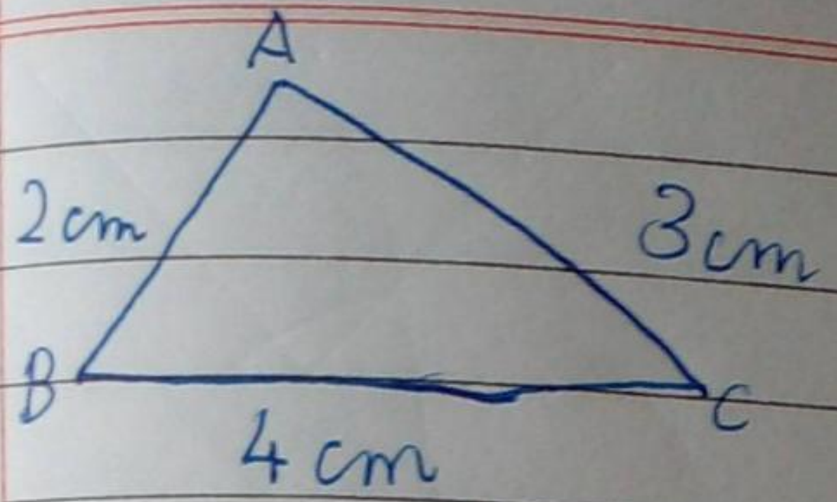
= 6 + 6 + 6 + 6

= 4 × 6

= 24 cm

cm × 1 cm = 1 cm².

c)

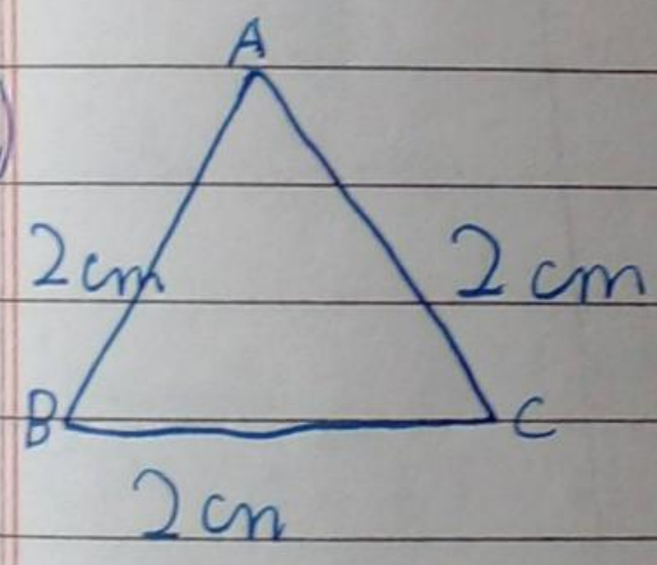


Perimeter = AB + AC + BC

= 2 + 3 + 4

= 9 cm

d)



Side = 2 cm

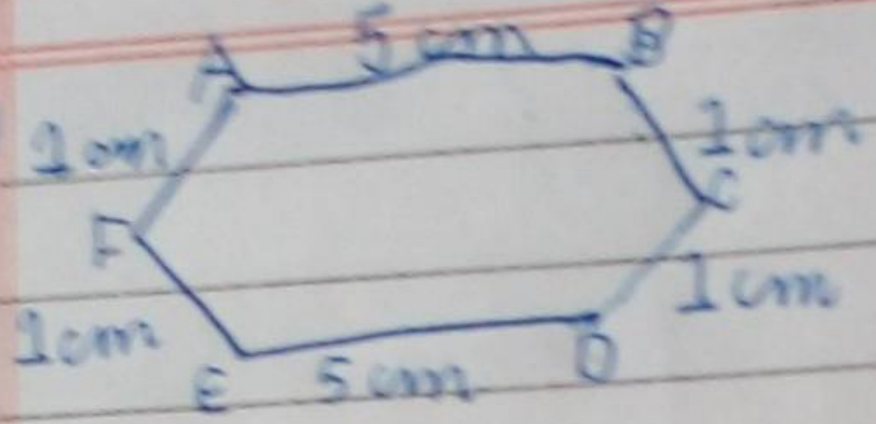
Perimeter = AB + BC + AC

= 2 + 2 + 2

= 3 × 2

= 6 cm

e)



Perimeter = AB + AF + BC + CD + DE + FE.

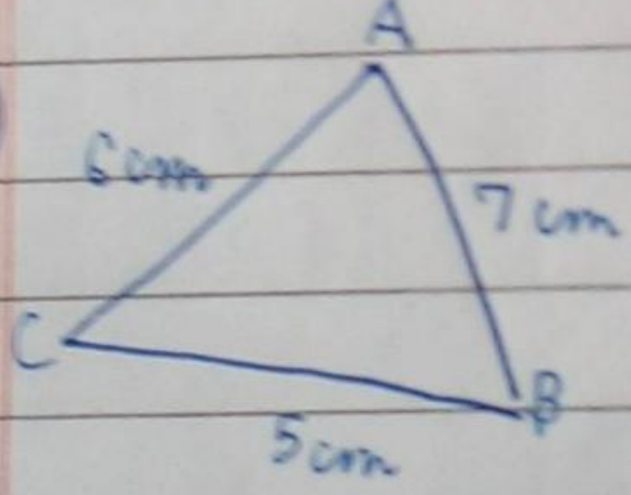
$= 1+1+5+5+1+1$

$= (4 \times 1) + (5 \times 2)$

$= 4 + 10$

$= 14\text{ cm}$

f)



Perimeter = AB + AC + BC

$= 6 + 7 + 5$

$= 18\text{ cm}$

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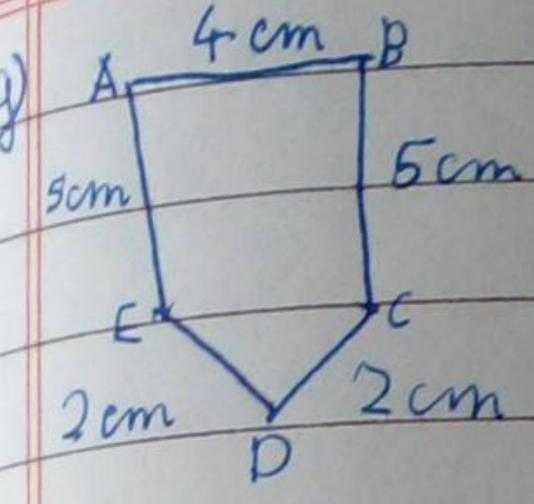
g)

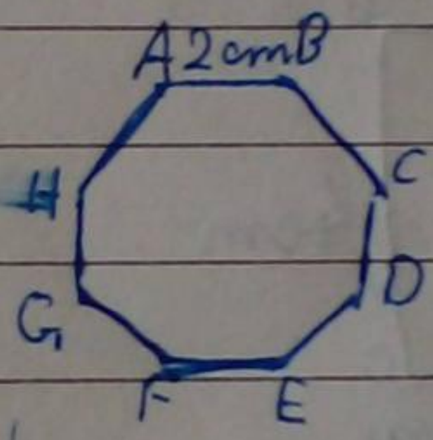


Perimeter = AB + AE + BC + CD + DE

= 4 + 5 + 5 + 2 + 2

= 18cm

h) Side = 2 cm



Perimeter = AB + AH + BC + GCD + DE + EF + FG + GH.

= 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2

= 2 X 8

= 16cm

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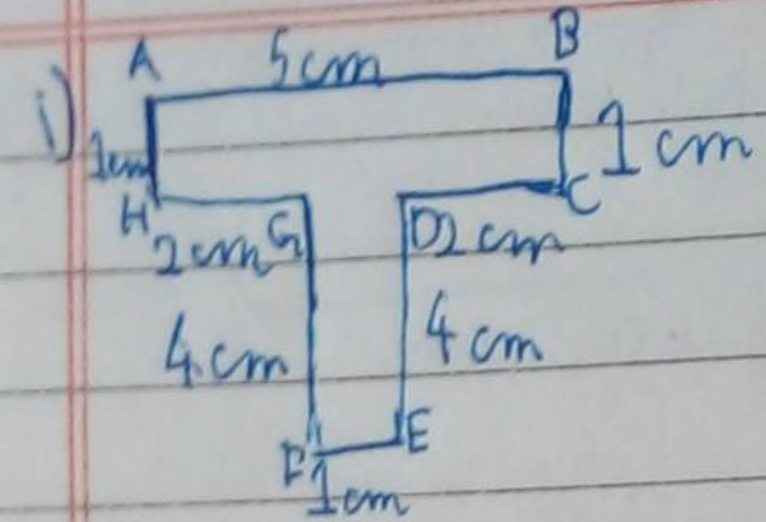
i)

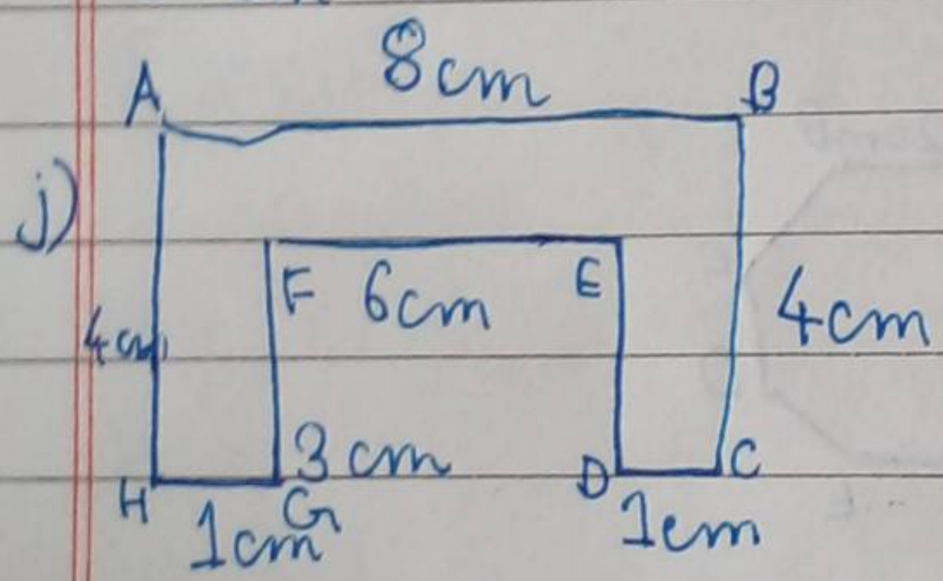


= Perimeter = AB + BC + CD + DE + EF + FG + GH + AH

= 5 + 1 + 4 + 2 + 1 + 4 + 2 + 1.

= 20 cm

j)



Perimeter = AB + BC + CD + DE + EF + FG + GH + AH

= 8 + 4 + 1 + 3 + 6 + 3 + 1 + 4

= 30 cm

2. Find the perimeters of the squares with the following sides:

a) 8cm = 32cm

length of one side = 8cm

Perimeter = 4 x length of one side

= 4 x 8

= 32 cm

b) 10m = 40m

length of one side = 10m

Perimeter = 4 x length of one side

= 4 x 10m

= 40m

c) 9m 15 cm = 36m 60 cm

= Length of one side = 9m 15cm

= Perimeter = 4 X length of one side

= 4 X 9m 15 cm

= 36m 60 cm

d) 12m 14cm = 48m 56 cm

= Length of one side = 12m 14 cm

= Perimeter = 4 X lingth of one side

= 4 X 12m 14 cm

= 48m 56 cm

3) Find the perimeters of the rectangles with the following dimensions

a) length = 7cm ; breadth = 3cm = 20cm

= length = 7cm
= breadth = 3cm

= Perimeter = length + breadth X 2

= 2X(7+3)
= 2X10
= 20

b) length = 6m ; breadth = 4cm = 1208cm

= length = 6m
breadth = 4cm

Perimeter = 2X(length + breadth)

= 2x(6+4)

= 2 x 604
= 1208 cm

c) length = 2cm; breadth = 1 cm = 6cm

= length = 2 cm

= breadth = 1 cm

Perimeter = 2 x length + breadth.

= 2 x (2 + 1)

= 2 x 3

= 6 cm

d) length = 10m 3cm; breadth = 7m 25cm =

= Length = 10m 3cm

= Breadth = 7m 25cm

Perimeter = 2 x length + breadth

= 2 x (103 + 725)

= 2 x (828)

= 1,656 cm

4. Find the perimeter of the following triangles if the length of each side of the triangle is:

a) Length of one side = 7cm

Perimeter = 3 × length of one side

= 3 × 7

= 21cm

b) Length of one side = 9cm

Perimeter = 3 × Length of one side

= 3 × 9

= 27cm

c) 8m 5cm = Length of one side.

Perimeter = 3 × Length of one side

= 3 × 805

= 24m 15cm

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d) 11m 10cm = Length of one side

Perimeter = 3 X Length of one side

= 3 X 1110

= 33m 30cm

5. Find the perimeters of the triangles with the follo dimensions :-

a) AB = 8cm ; BC = 6cm ; CA = 7cm

Perimeter = AB + BC + CA

= 8 + (6 + 7)

= 8 + 13

= 21cm

b) AB = 4cm ; BC = 8cm ; CA = 9cm

Perimeter = AB + BC + CA

= 4 + (8 + 9)

= 4 + 17

= 21cm

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c) AB = 7 cm ; BC = 4·5 cm ; CA = 3·5 cm

Perimeter = AB + BC + CA

= 7 + (4·5 + 3·5)

= 7 + 8

= 15

d) AB = 12 m ; BC = 11 m ; CA = 9 m 7 cm

Perimeter = AB + BC + CA

= 1200 + (1100 + 907)

= 1200 + 2007

= 32 m 7 cm

6. Length of the floor = 60 m
Breadth of the floor = 50 m
Perimeter of the floor = 60 + 50 X 2 = 220 m

60	110
+ 50	X 2
110	220

∴ Perimeter of the floor is 220 m

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7. Length of the cloth = 7m

Breadth of the cloth = 2m

length of the lace required to lace it around = 18

$$\begin{array}{rr} 7 & 9 \\ +2 & \times 2 \\ \hline 9 & 18 \end{array}$$

∴ Therefore, 18m lace is required to lace it

8. Length of the table top = 150m
Breadth of the table top = 120m
Perimeter of the table top = 340m

$$\begin{array}{rr} 150 & 170 \\ +120 & \times 2 \\ \hline 170 & 340 \end{array}$$

∴ Thus, the perimeter of the table top is 340m.

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9. Length of one side of the park = 200m
Length of other side of the park = 180m
Length of another side of the park = 120m
Distance travelled by the man twice = 1 Km

$$\begin{array}{r} 200 \\ +180 \\ +120 \\ \hline 560\text{m} \end{array} \qquad \begin{array}{r} 500 \\ \times 2 \\ \hline 1000\text{ m} \end{array}$$

∴ Thus, 1 Km is the distance travelled by the man if he goes around it twice.

10. Length of the garden = 100 m

Wire required for fencing around it thrice =

$$\begin{array}{r} 100 \\ \times 4 \\ \hline 400 \end{array} \qquad \begin{array}{r} 400 \\ \times 3 \\ \hline 1200 \end{array}$$

∴ 1 Km 200 m wire is required for fencing around the garden thrice

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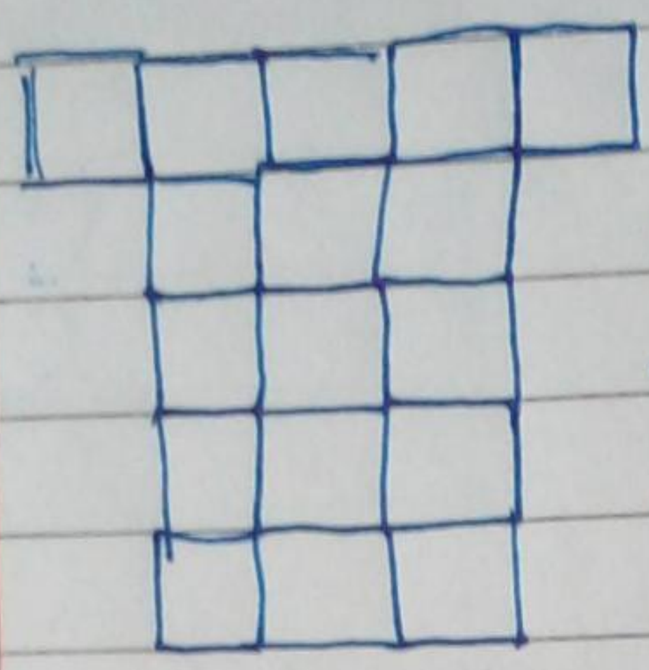
Exercis - 14 (B)

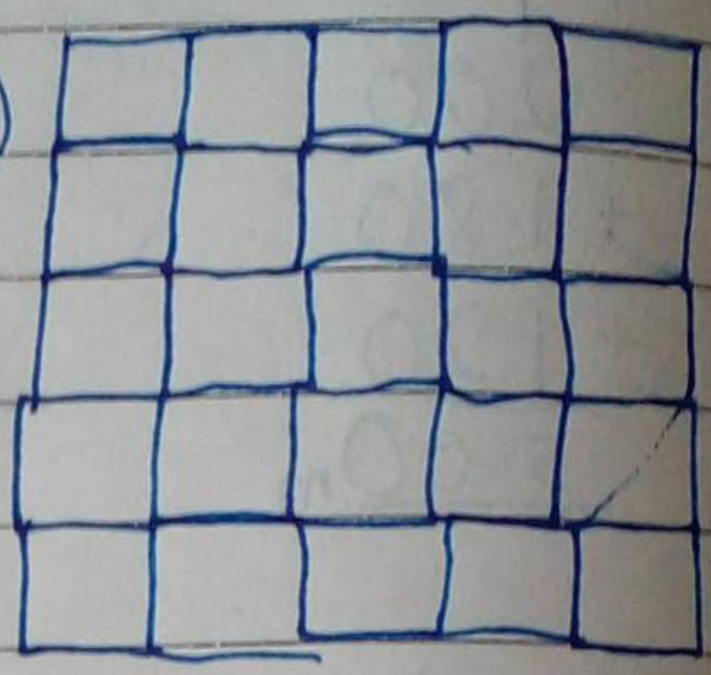
1. Find the area of the following figures if each square has an area of $1 cm^2$

a)

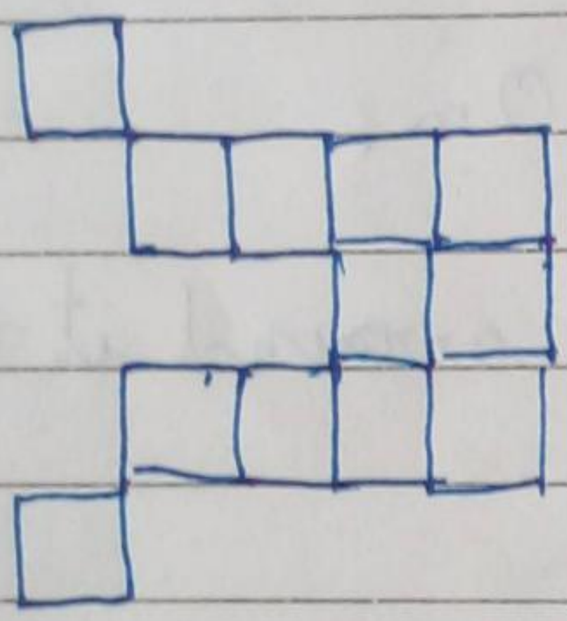


Area = $17 cm^2$

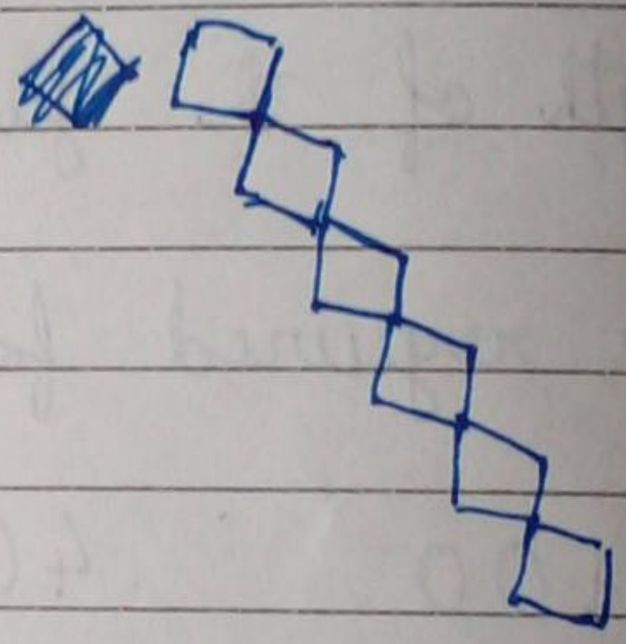
b)



Area = $25 cm^2$



Area = $12 cm$



Area = $6 cm^2$