

KS2 AREA, PERIMETER & VOLUME BOOKLET

NI TUTOING SCHOOL

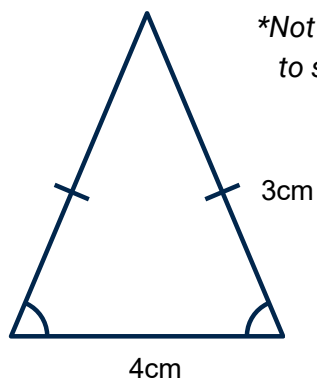
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1

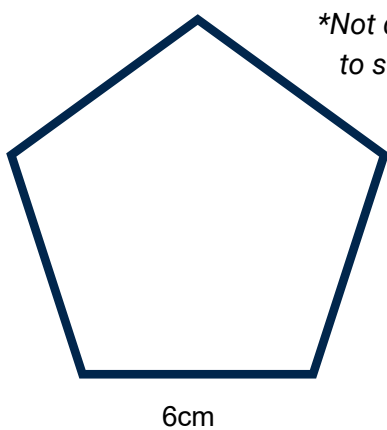
What is the perimeter of the triangle below?



_____ cm

2

The pentagon below is regular. What is the perimeter of the pentagon?



_____ cm

3

What is the perimeter of the rectangle?

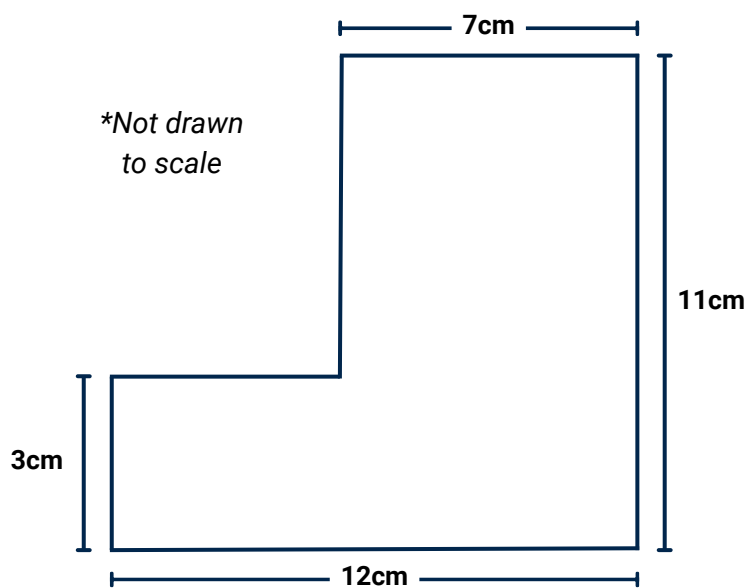


_____ cm



4

What is the perimeter of this composite shape?



A 41cm

B 40cm

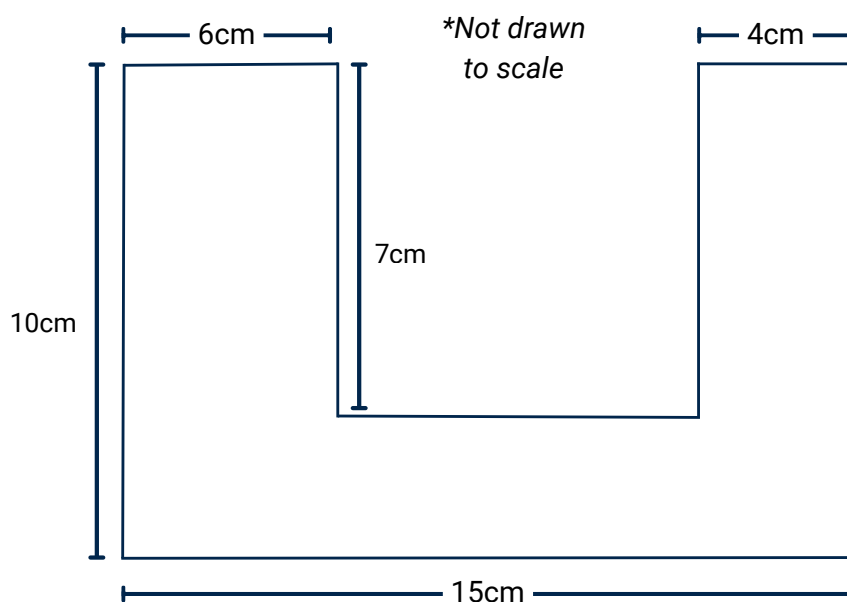
C 33cm

D 46cm

E 38cm

What is the perimeter of this composite shape?

5



A 42cm

B 59cm

C 64cm

D 52cm

E 49cm



6

What is the area of this square?

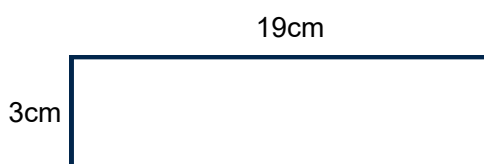


**Not drawn
to scale*

_____ cm^2

7

What is the area of this rectangle?

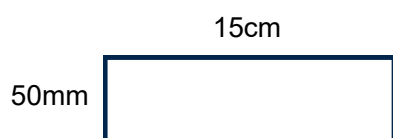


**Not drawn
to scale*

_____ cm^2

8

What is the area of this rectangle?

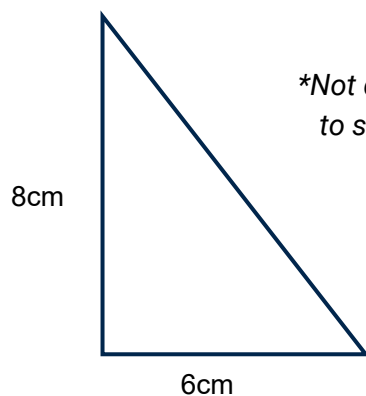


**Not drawn
to scale*

_____ cm^2

9

Calculate the area of the triangle below.



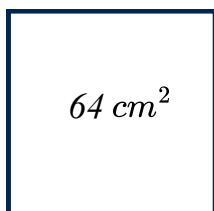
**Not drawn
to scale*

_____ cm^2



10

The area of this square is 64 cm^2 . What is the length of one side?

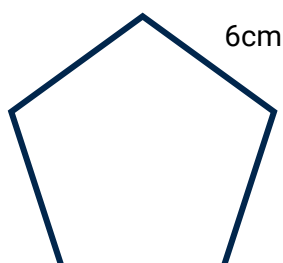


**Not drawn
to scale*

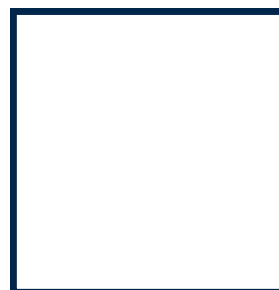
_____ cm

11

A regular pentagon has side length 6cm. It has the same perimeter as a square.



**Not drawn
to scale*



What is the length of one side of the square?

A 6cm

B 8cm

C 5cm

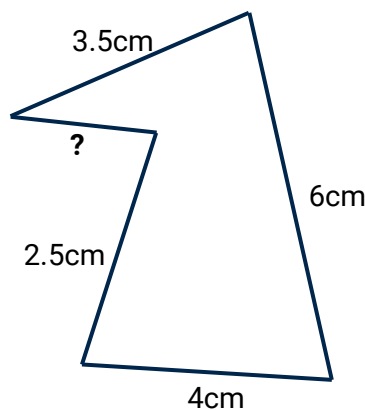
D 30cm

E 7.5cm

12

The shape below is a pentagon. Four of its sides are labelled.

The perimeter of the pentagon is 17.5cm. What is the length of the missing side?



**Not drawn
to scale*

A 2.5cm

B 3.5cm

C 1cm

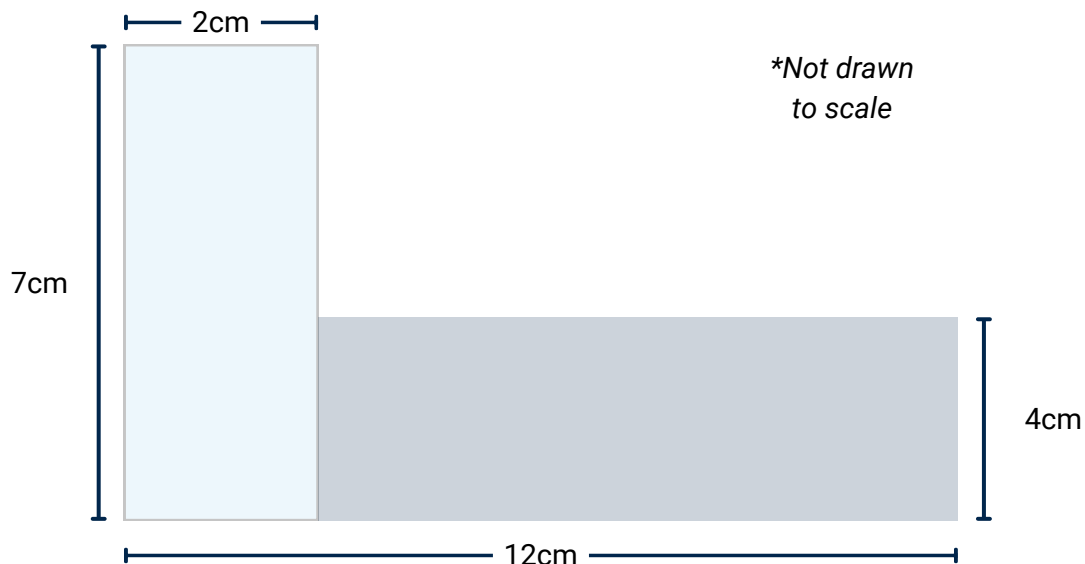
D 1.5cm

E 2cm



13

What is the area of this composite shape?



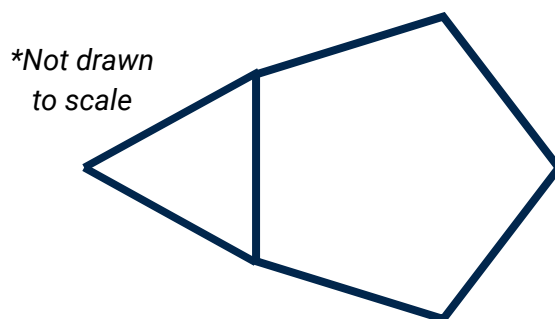
- A 68 cm² B 56 cm² C 62 cm² D 48 cm² E 44 cm²

14

Shown below is a hexagon formed by joining an equilateral triangle to a regular pentagon along one side.

The perimeter of the equilateral triangle is 18 cm.

What is the perimeter of the hexagon?



- A 36 cm B 48 cm C 42 cm D 30 cm E 24 cm

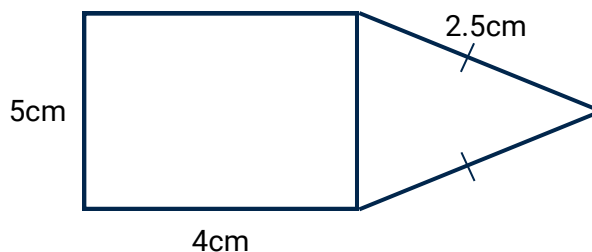


15

Shown below is a pentagon formed by joining a rectangle and an isosceles triangle.

What is the perimeter of the pentagon?

**Not drawn
to scale*

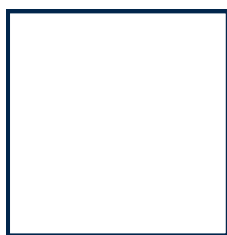


- A 11.5 cm B 16.5 cm C 14 cm D 18 cm E 19 cm
-

16

The perimeter of this square is 40 cm. What is the area of the square?

**Not drawn
to scale*



- A 80 cm² B 200 cm² C 40 cm² D 100 cm² E 160 cm²
-

17

The height of a rectangle is 7 cm. The width of the rectangle is three times as long.

What is the area of the rectangle?

7cm



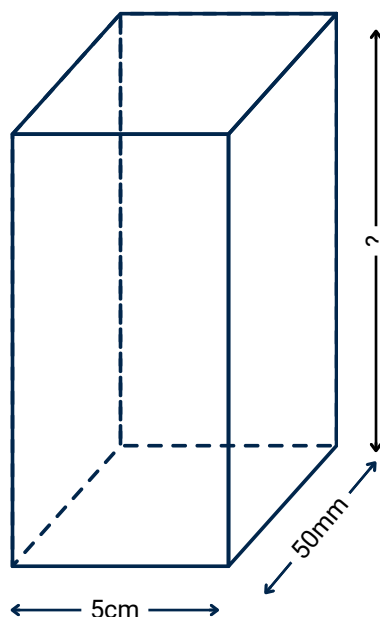
**Not drawn
to scale*

- A 21 cm² B 98 cm² C 147 cm² D 105 cm² E 70 cm²



18

The cuboid below has a volume of 250 cm^3 .
What is the height of the cuboid?



**Not drawn to scale*

A 5 cm

B 15 cm

C 10 cm

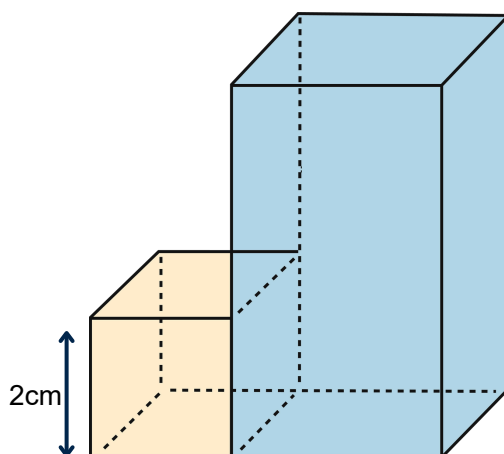
D 1 cm

E 25 cm

19

Shown below is a cube and a cuboid joined together.
The height of the cube is 2 cm.
The volume of the cuboid is 4 times the volume of the cube.

What is the total volume of both shapes together?



**Not drawn to scale*

A 16 cm^3

B 20 cm^3

C 40 cm^3

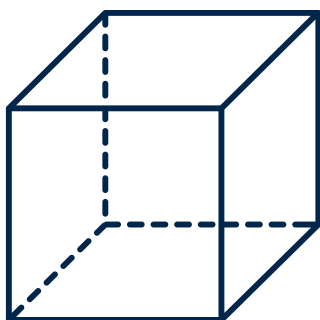
D 48 cm^3

E 32 cm^3



20

The volume of this cube is 125 cm^3 .
What is the length of one side of the cube?



_____ cm

END



Answers