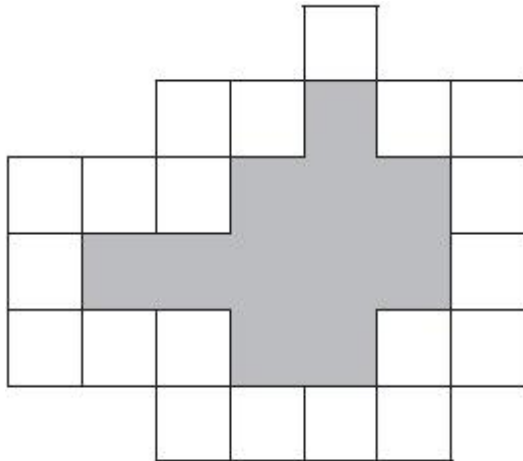


Q1.

Here is a set of 20 squares around a shaded space.



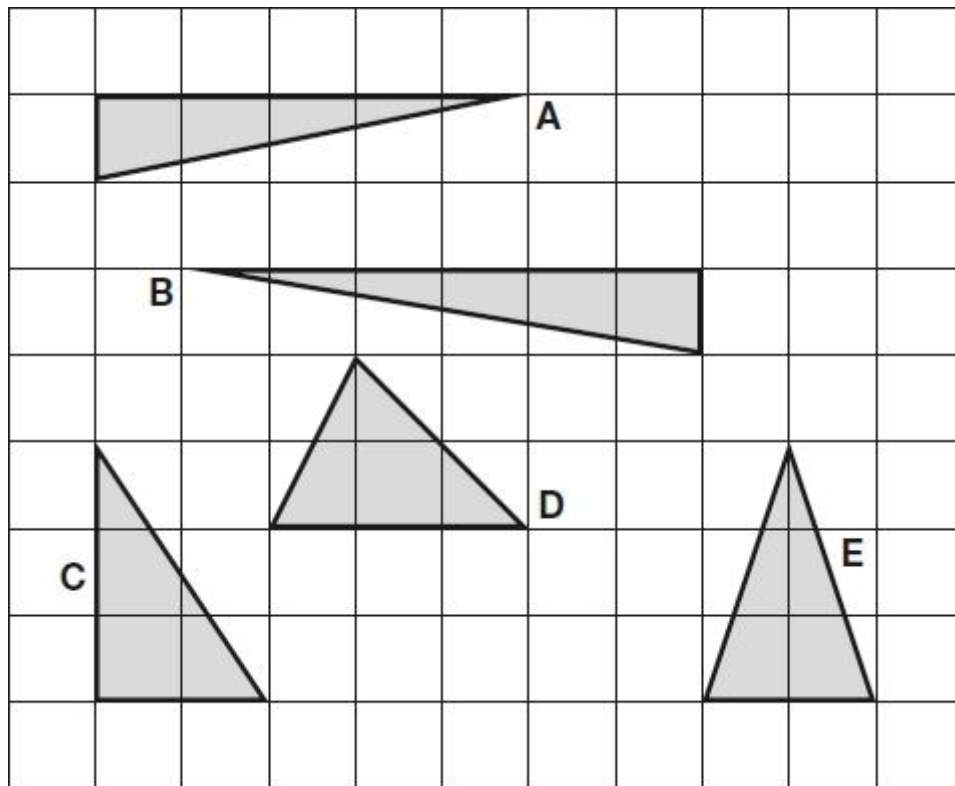
What is the area of the shaded space?

squares

1 mark

Q2.

Here are five triangles on a square grid.



Four of the triangles have the same area.

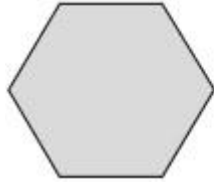
Which triangle has a **different** area?

1 mark

Q3.

These two shapes have the **same** perimeter.

regular hexagon



square



Not actual size

The length of each side of the **hexagon** is **8** centimetres.

Calculate the **area** of the **square**.

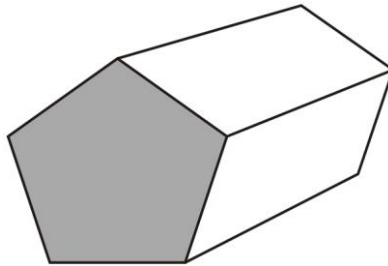
Show your method

A large grid of 20 columns and 10 rows of squares. A rounded rectangle on the left contains the text "Show your method". A smaller rectangle on the right contains the text "cm²".

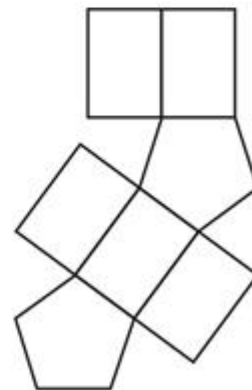
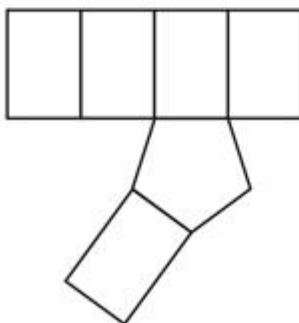
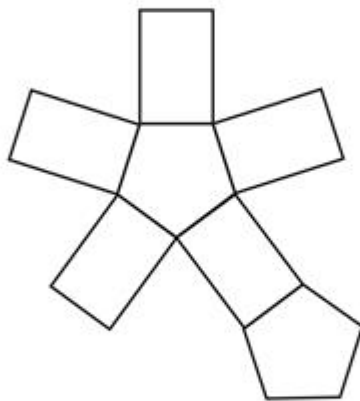
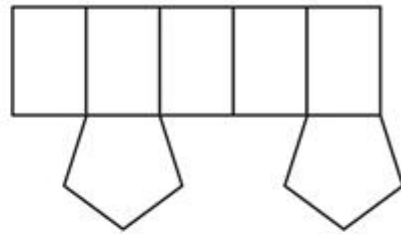
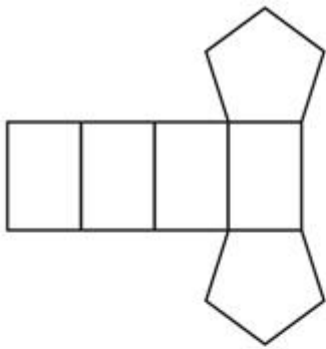
2 marks

Q4.

This is a drawing of a pentagonal prism.



Tick (✓) the one shape that is a net for the pentagonal prism.



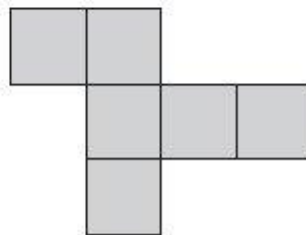
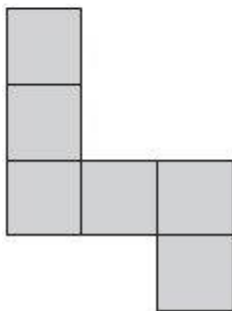
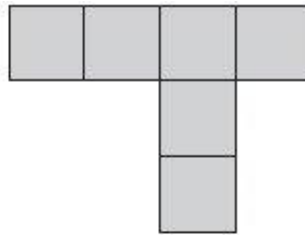
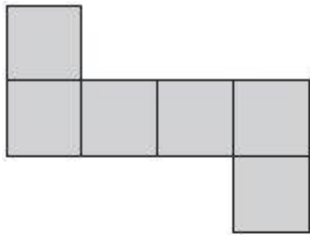
1 mark

Q5.

Here are four diagrams.

On each one put a tick (✓) if it is a net of a cube.

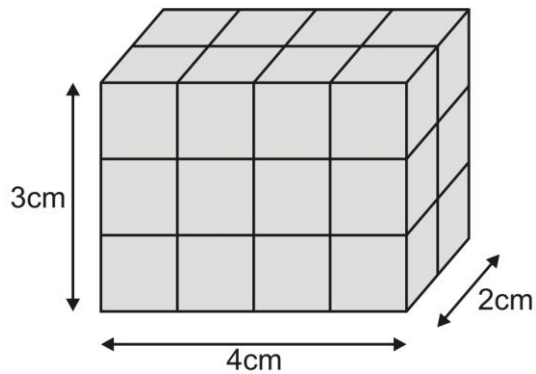
Put a cross (X) if it is not.



2 marks

Q6.

This cuboid is made from centimetre cubes.



It is 4 centimetres by 3 centimetres by 2 centimetres.

What is the **volume** of the cuboid?

cm

1 mark

Another cuboid is made from centimere cubes.

It has a volume of **30 cubic centimetres**.

What could the **length, height** and **width** be?

length	<table border="1"><tr><td>cm³</td></tr></table>	cm³
cm³		
height	<table border="1"><tr><td>cm³</td></tr></table>	cm³
cm³		
width	<table border="1"><tr><td>cm³</td></tr></table>	cm³
cm³		

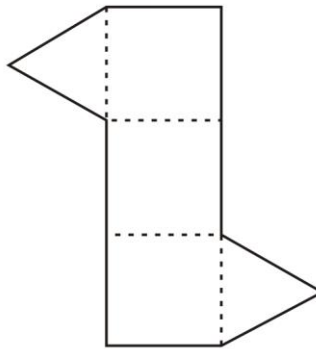
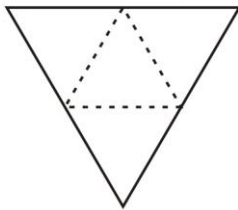
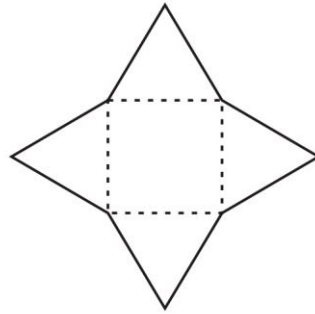
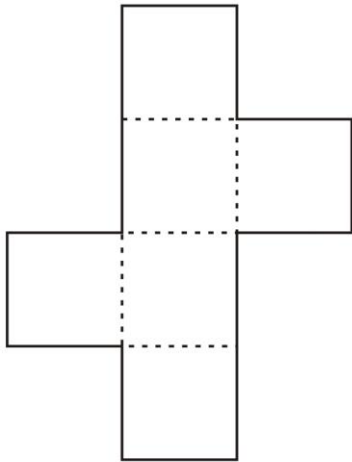
1 mark

Q7.

Here are some nets of shapes.

For each net, put a tick (✓) if it folds to make a **pyramid**.

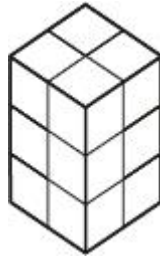
Put a cross (✗) if it does not.



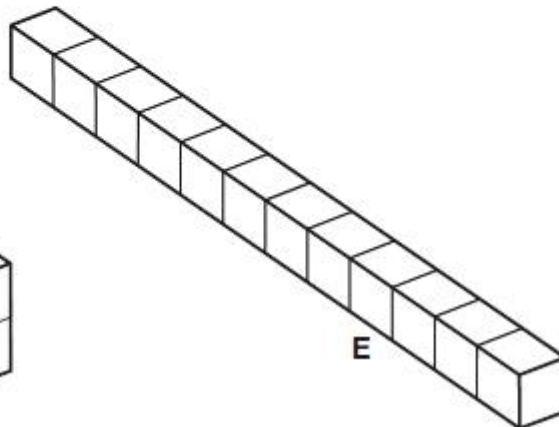
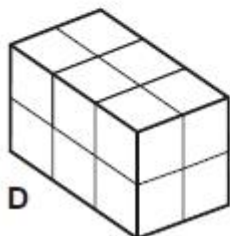
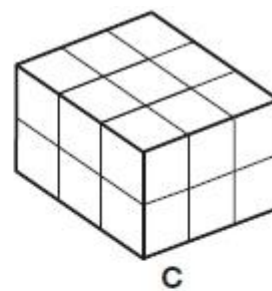
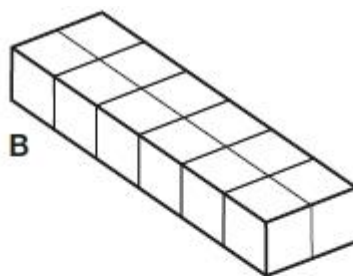
1 mark

Q8.

Emma makes a cuboid using 12 cubes.



Write the letter of the cuboid that has a **different** volume from Emma's cuboid.



_____ 1 mark

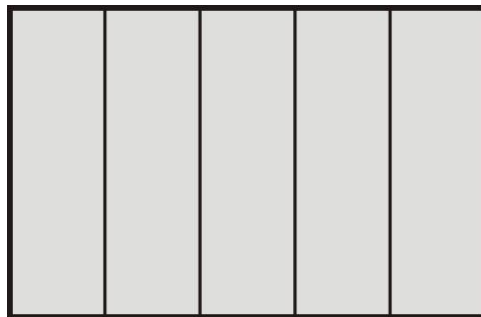
Q9.

Lara has some identical rectangles.

They are 7 centimetres long and 2 centimetres wide.



She uses **five** of her rectangles to make the large rectangle below.



What is the **perimeter** of the large rectangle?

A rectangular box for writing the answer to the perimeter question. The text "cm" is written at the bottom right corner of the box.

1 mark

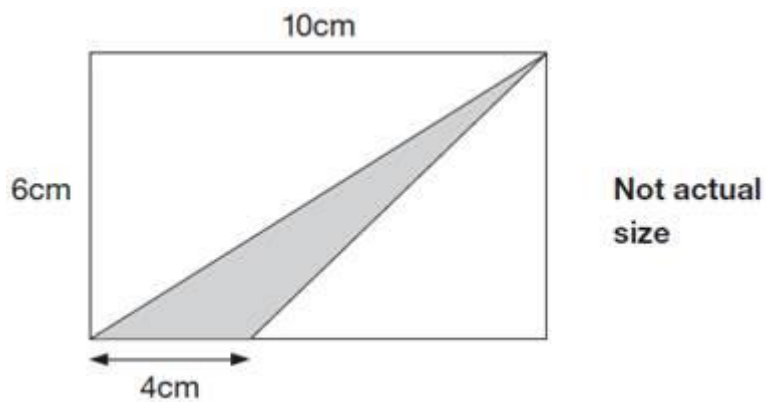
What is the **area** of the large rectangle?

A rectangular box for writing the answer to the area question. The text "cm" is written at the bottom right corner of the box.

1 mark

Q10.

The diagram shows a shaded triangle inside a rectangle.



What is the area of the shaded triangle?

Show your method

cm^2

2 marks

Q11.

Megan says,

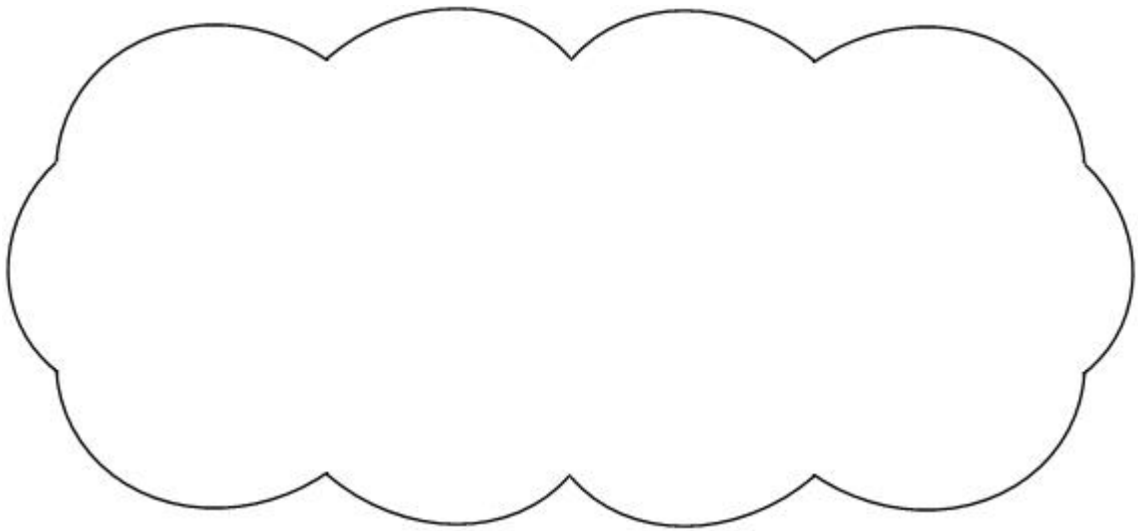
***'If two rectangles have the same perimeter,
they must have the same area.'***

Is she correct?

Circle **Yes** or **No**.

Yes / No

Explain how you know.



1 mark