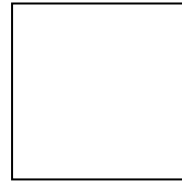
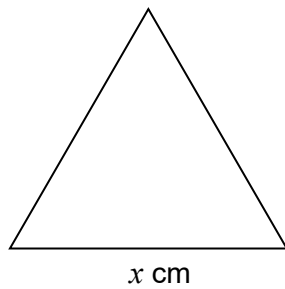


Topic Test 1 (20 minutes)

Perimeter and area - Higher

- 1 The diagram shows an equilateral triangle and a square.
Each side of the square is 1.5 cm shorter than each side of the triangle.



Not drawn accurately

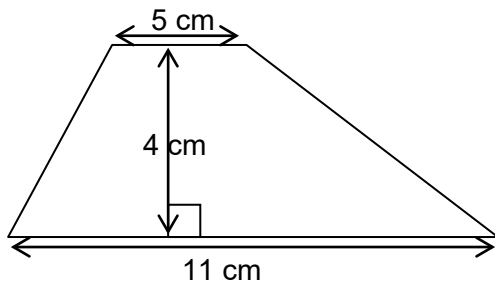
The perimeter of the triangle is equal to the perimeter of the square.

Work out the value of x .

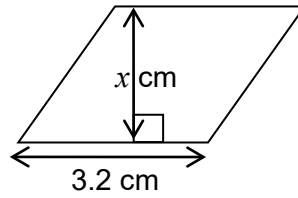
[3 marks]

Answer _____ cm

2



Not drawn accurately



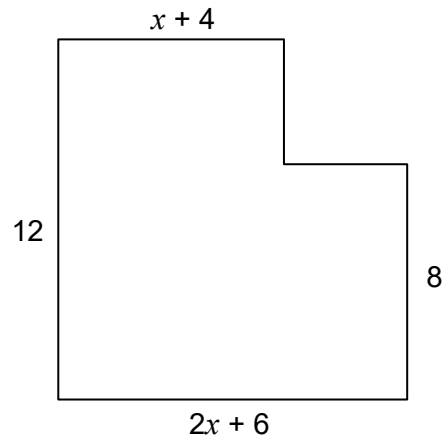
The area of the trapezium is four times the area of the parallelogram.

Work out the value of x .

[3 marks]

Answer _____

- 3 This shape is made from rectangles.
All measurements are in cm



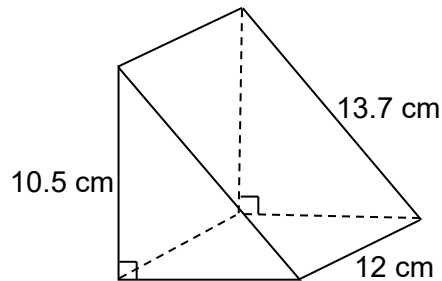
Not drawn accurately

Work out an expression, in terms of x , for the area of the shape.
Give your answer in its simplest form.

[3 marks]

Answer _____ cm^2

4 The diagram shows a piece of cheese in the shape of a triangular prism.



Not drawn accurately

4 (a) Work out the area of cling film needed to cover the cheese.

[5 marks]

Answer _____ cm²

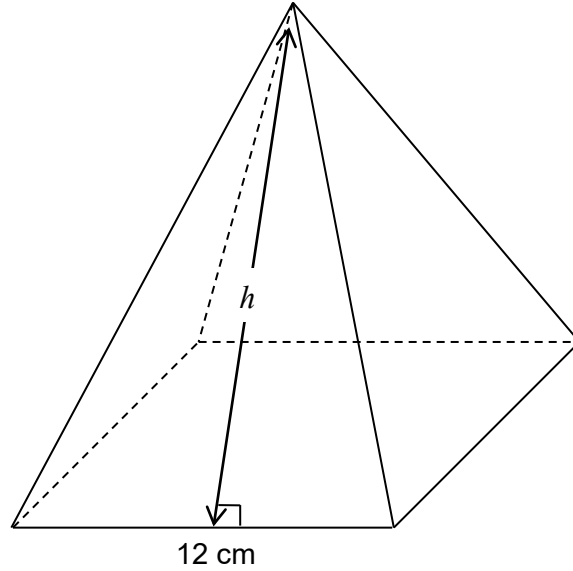
4 (b) Is your answer likely to be accurate for the area of cling film used?

Give a reason for your decision.

[1 mark]

Answer _____

- 5 The apex of this pyramid is directly above the centre of the square base.
The total surface area is 504 cm^2



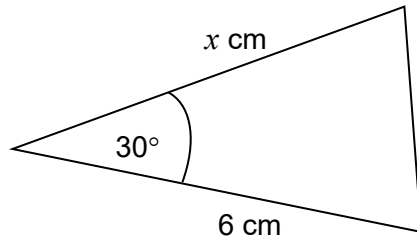
Not drawn accurately

Work out the perpendicular height, h of one of the triangular faces.

[3 marks]

Answer _____ cm^2

6 The area of the triangle is 15 cm^2



Not drawn accurately

Work the value of x .

[2 marks]

Answer _____ cm