1. Shaded shapes

Here is a shaded shape on a centimetre square grid.

(a) What is the area of the shaded shape?



1 mark

(b) Now draw a **rectangle** that has the **same area** as the shaded shape.

2. Squares

Alika has a box of square tiles. The tiles are three different sizes.





3 by 3 tile

She also has a mat that is 6cm by 6cm. **36** of the 1 by 1 tiles will cover the mat.



(a) How many of the 2 by 2 tiles will cover the mat?



1 mark

(b) How many of the **3 by 3 tiles** will cover the mat?



(c) Alika glues three tiles on her mat like this:



Complete the gaps below.



1 mark



3. Area

Look at the shaded shape on this centimetre square grid.



(a) Explain why the shape is a **hexagon**.

(b) What is the **area** of the hexagon?



1 mark

1 mark

(c) On the centimetre square grid below, draw a triangle that has an area of 2 cm²

4. Shapes

The shaded rectangle has an **area** of **4 cm²** and a **perimeter** of 1**0 cm**.



(a) Look at the cross-shape.



Fill in the gaps below. The cross-shape has



an area of cm² and a perimeter of cm.

2 marks

(b) Draw a shape with an **area** of **6 cm**²





(c) What is the **perimeter** of your shape?



1 mark

(d) Look at the octagon.



What is the area of the octagon?

• cm²

1 mark

(e) Explain how you know that the perimeter of the octagon is **more than 8cm**.

1 mark Total 6 marks