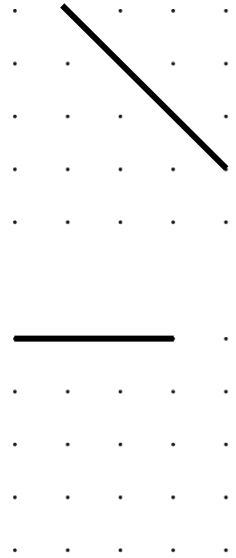
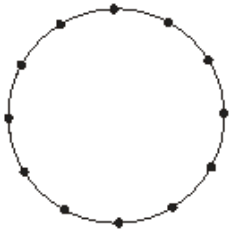
Term by Term Objectives

Year 5

Shapes	Use the properties of rectangles to deduce related facts and find missing lengths and angles.	• Complete the rectangles on the grids below.  • Why is a square a special rectangle? • Join 4 dots together to make a rectangle. 	• The perimeter of the rectangle is 45cm.  Find the length of the rectangle. • Here is a rectangle.  What is the sum of angles a and b? Find angle c. • A shape has 4 right angles. It has 4 straight sides. It has 2 pairs of parallel lines. Draw what the shape could be. Is there more than one option?	• A rectangular classroom has a perimeter between 20 and 25 cm. What could the dimensions be?  • A rectangular classroom has an area between 20 and 25 cm. What could the dimensions be? • A shape is made up of a square and rectangle.  The perimeter of the shape is 70cm. The area of the square is 121cm^2 What is the area of the rectangle?

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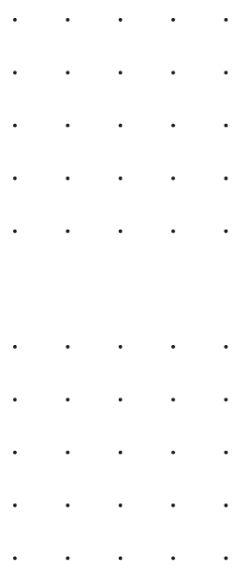
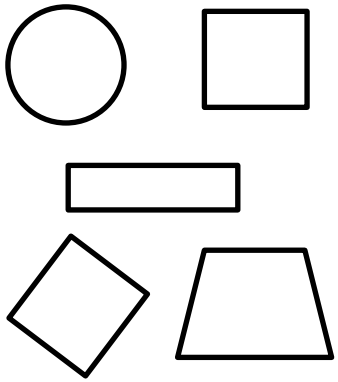
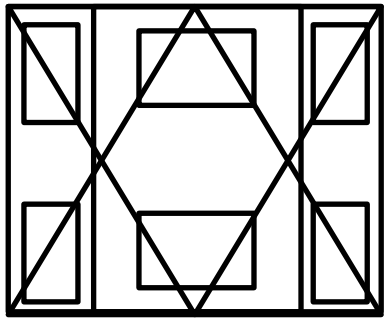
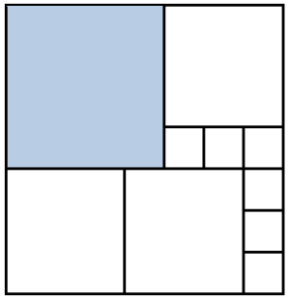
Term by Term Objectives

Year 5

Shapes	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	• Name 4 irregular 4 sided polygons. • Name 5 regular polygons. • Draw a regular polygon and an irregular polygon on the grids below. 	• Tick the regular quadrilaterals.  Explain your choices. • **Always, sometimes, never.** The number of equal angles is the same number of equal sides in a regular polygon. • Adam says, All the angles are equal in a regular polygon so that must mean a rectangle is a regular polygon. Is Adam correct? Why?	• Cut out lots of different regular and irregular shapes. Ask children to work in pairs and sort them into groups. Once they have sorted them, can they find a different way to sort them again? • How many regular and irregular polygons can you find in this picture?  • This grid is made up of squares. How many small squares could fit inside? 

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