

Understanding angles

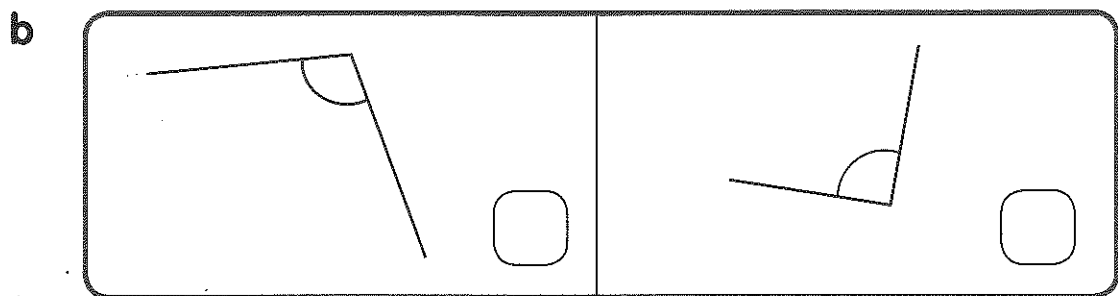
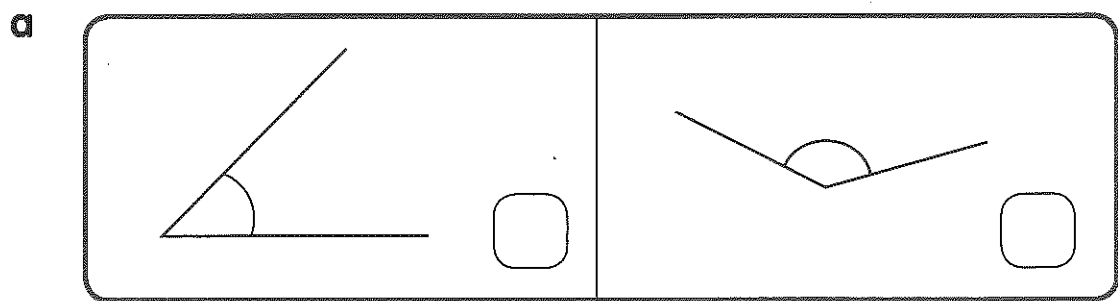
Practice 1

1 Put a tick (✓) in the box for the pairs of lines which make angles.

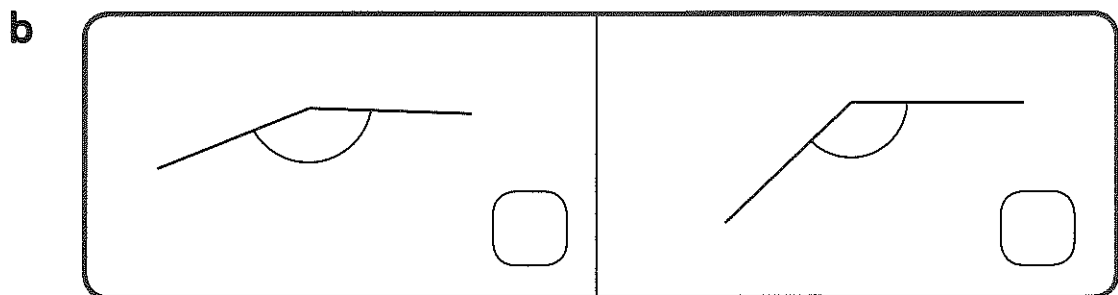
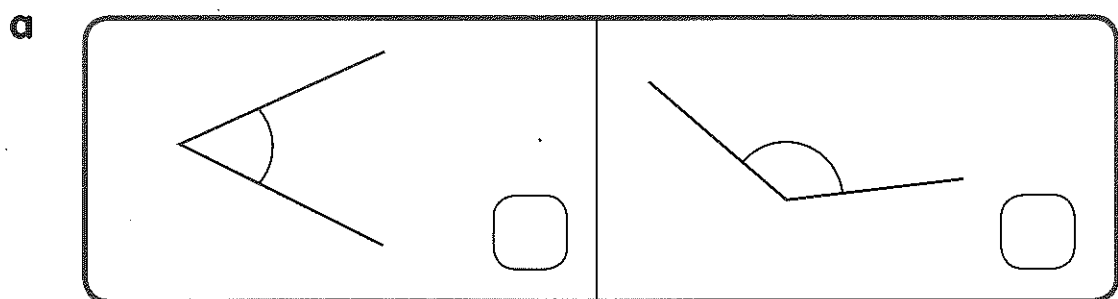
Date: _____

<input type="checkbox"/>		f
<input type="checkbox"/>		e
<input type="checkbox"/>		d
<input type="checkbox"/>		c
<input type="checkbox"/>		b
<input type="checkbox"/>		a

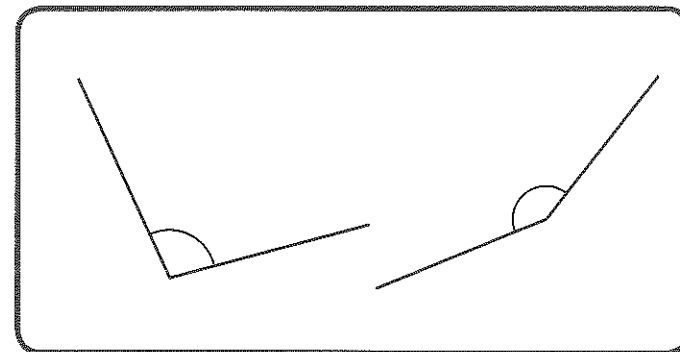
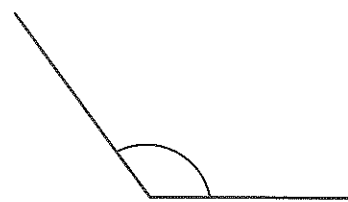
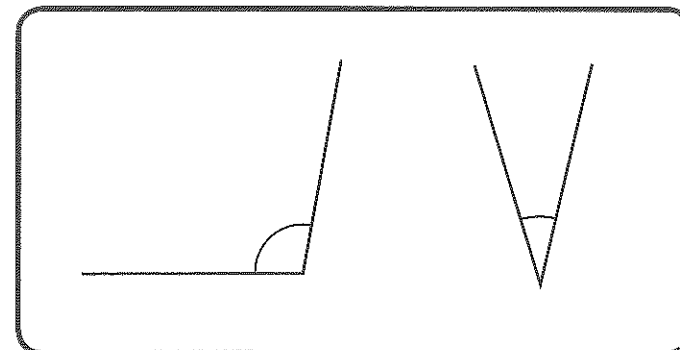
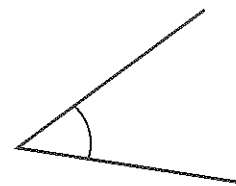
2 Which angle is smaller? Put a tick (✓) in the box of the smaller angle.



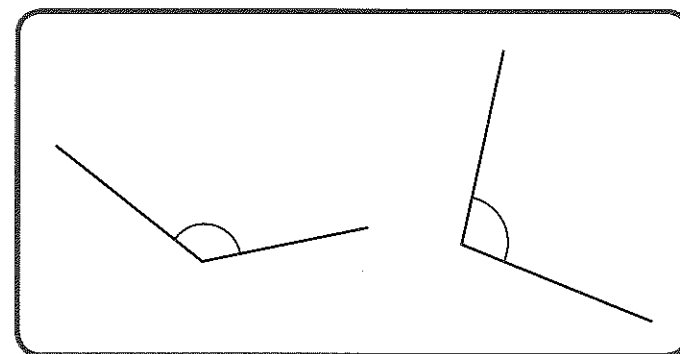
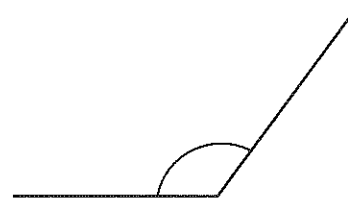
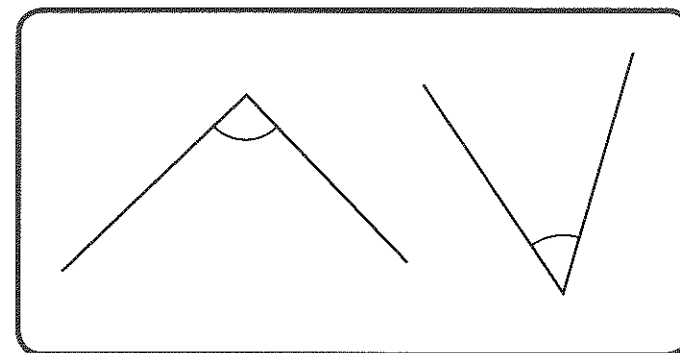
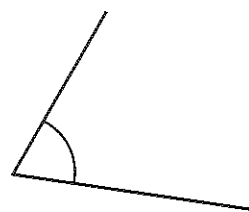
3 Which angle is greater? Put a tick (✓) in the box of the greater angle.



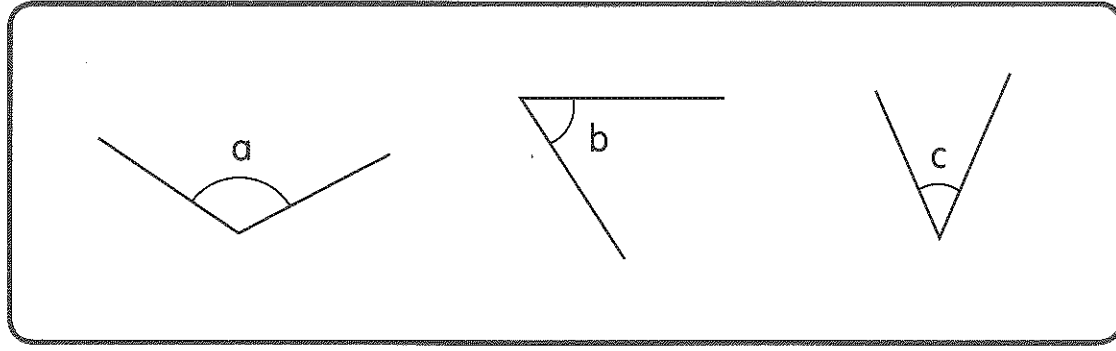
4 Circle the angle in each box that is greater than the angle shown on the left.



5 Circle the angle in each box that is smaller than the angle shown on the left.

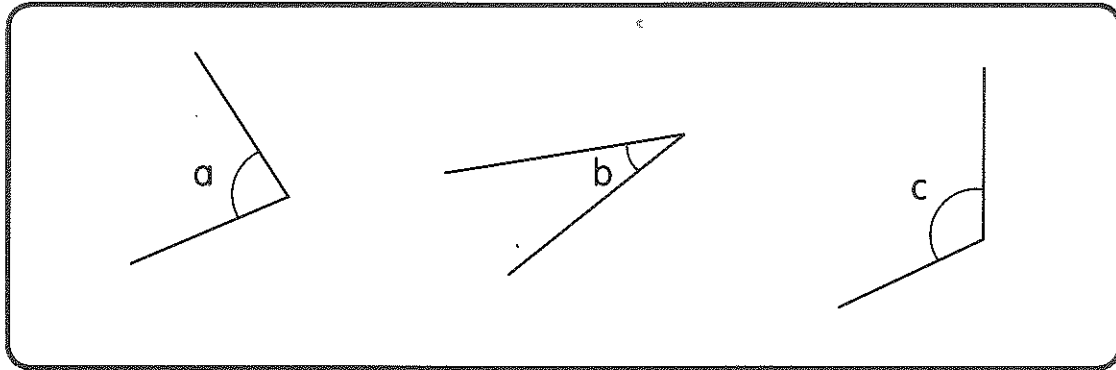


6 Look at these angles and fill in the spaces.



- a Angle _____ is the smallest.
- b Angle _____ is the greatest.
- c Angle _____ is smaller than Angle b.

7 Arrange these angles in order of size, beginning with the greatest.

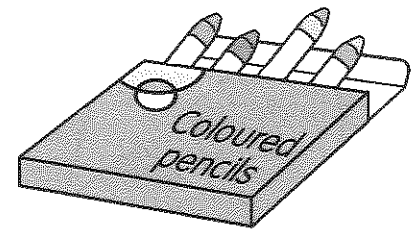


Angle _____, Angle _____, Angle _____
greatest

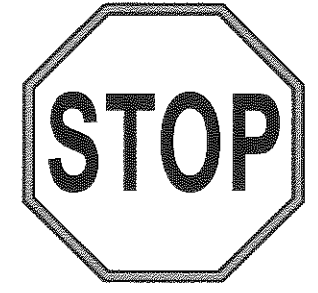
Practice 2 Identifying angles

1 Mark any two angles on each of the following objects.

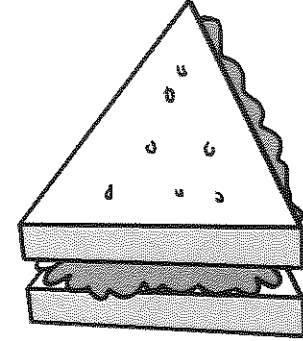
a



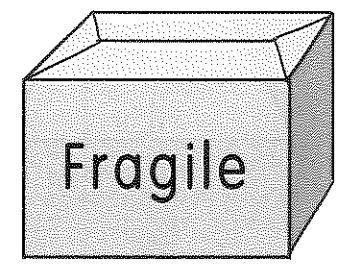
b



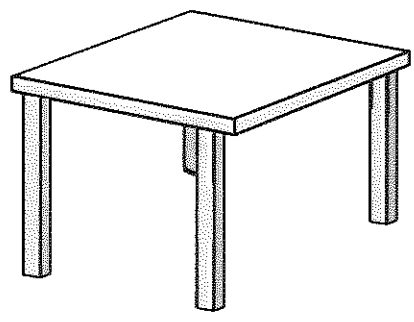
c



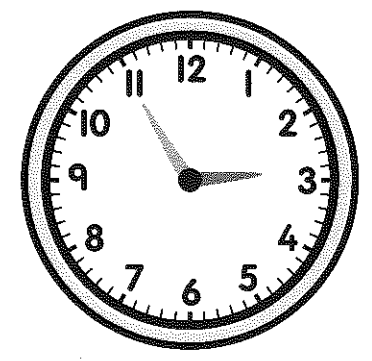
d



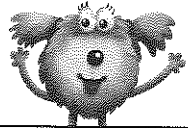
e



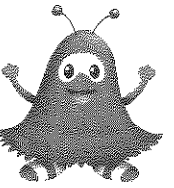
f



2 Mark two angles inside each of the following shapes.

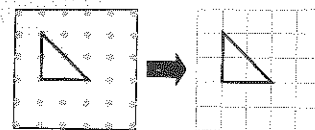


3 Peter draws the following shapes on dotty paper. How many sides and angles does each shape have? Mark all the angles inside each shape.

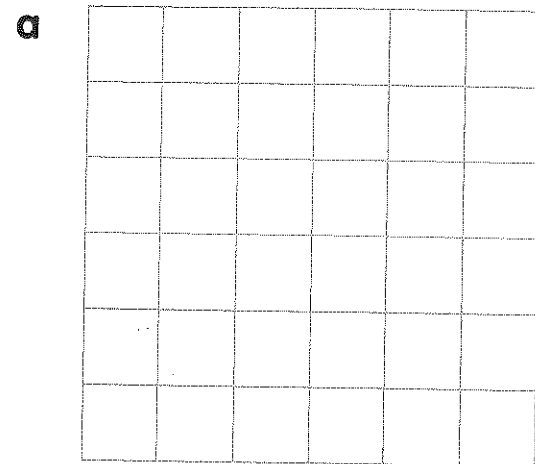


Shape	Number of Sides	Number of Angles

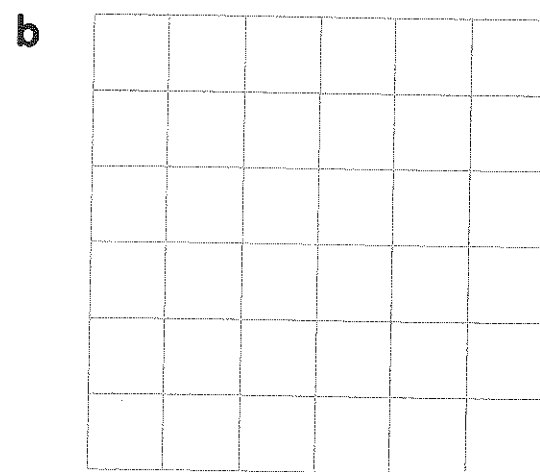
4 Make four different shapes on a geoboard. Draw each shape you have made onto a grid below. Write the number of sides and the number of angles inside each shape.



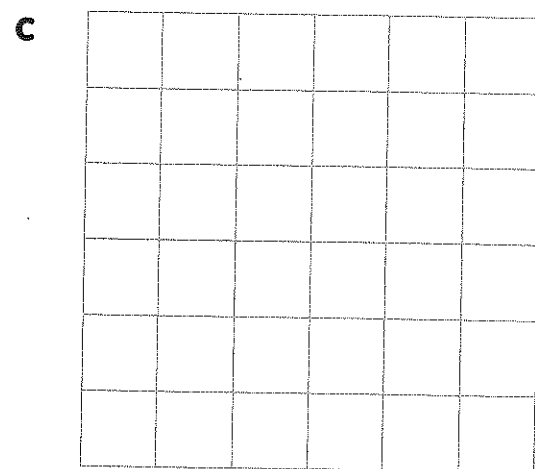
Example



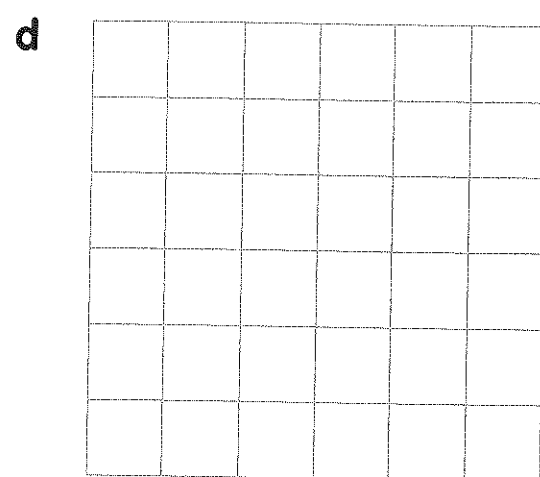
_____ sides, _____ angles



_____ sides, _____ angles



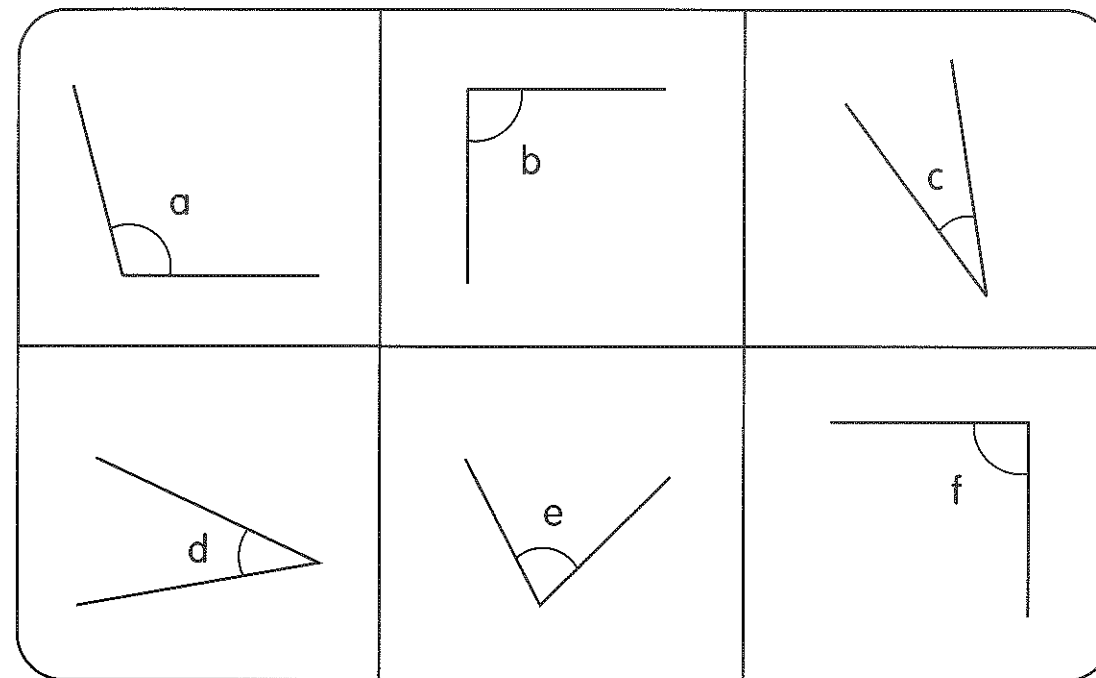
_____ sides, _____ angles



_____ sides, _____ angles

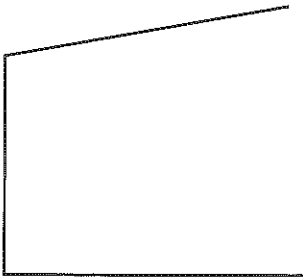
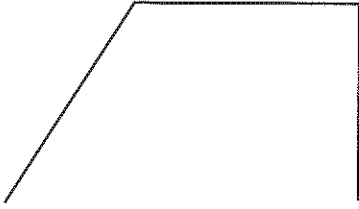
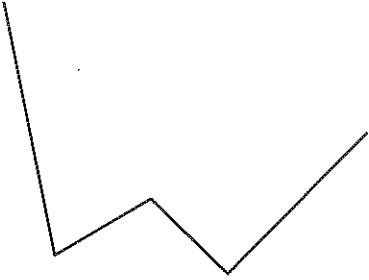
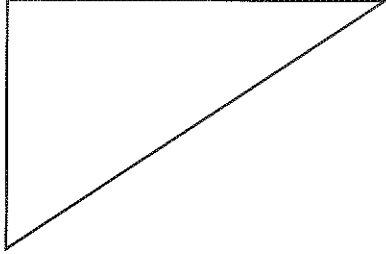
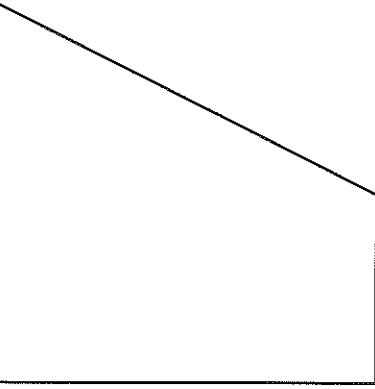
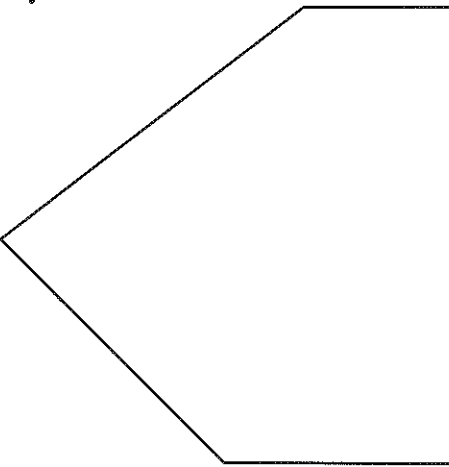
Practice 3 Right angles

1 Look at these angles. Use a piece of folded paper to help you answer the questions.



- a** Which of these angles are smaller than a right angle? _____
- b** Which of these angles are greater than a right angle? _____
- c** Which of these angles are right angles? _____

2 Mark all the right angles in each of the following.

<p>a</p> 	<p>b</p> 
<p>c</p> 	<p>d</p> 
<p>e</p> 	<p>f</p> 

Challenging Practice

1 Draw the following on the dotted paper below.

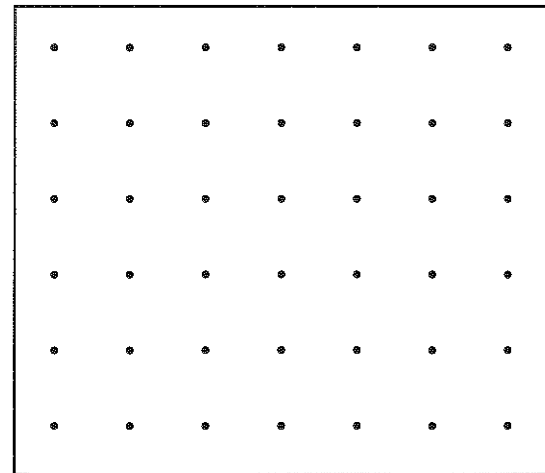
a A shape with 5 sides and 5 angles.



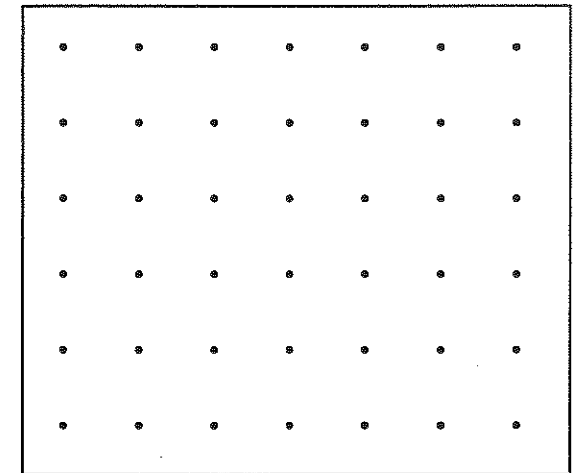
b A shape with 3 sides and 2 angles smaller than a right angle.



c A shape with 4 sides and an angle greater than a right angle.

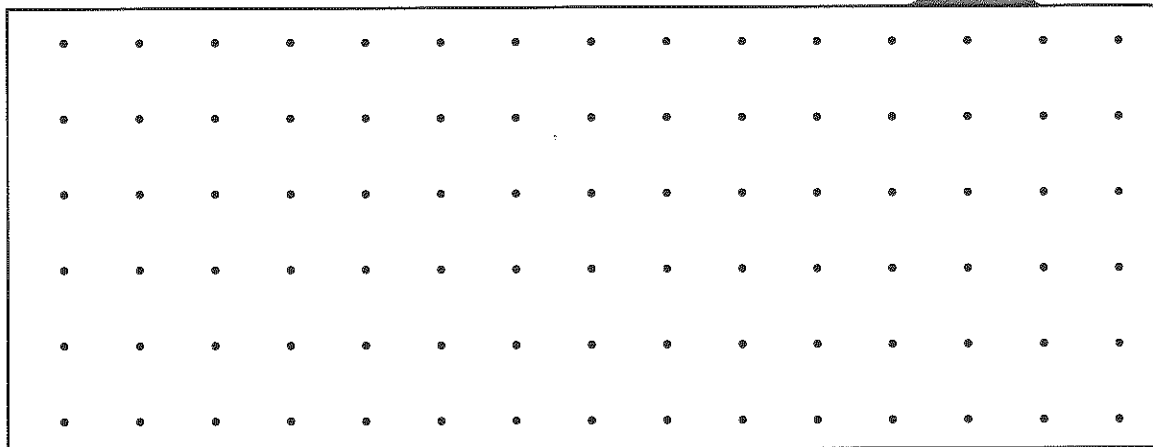
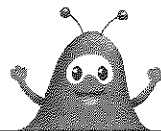


d A shape with 7 sides and 7 angles, 3 of which are right angles.



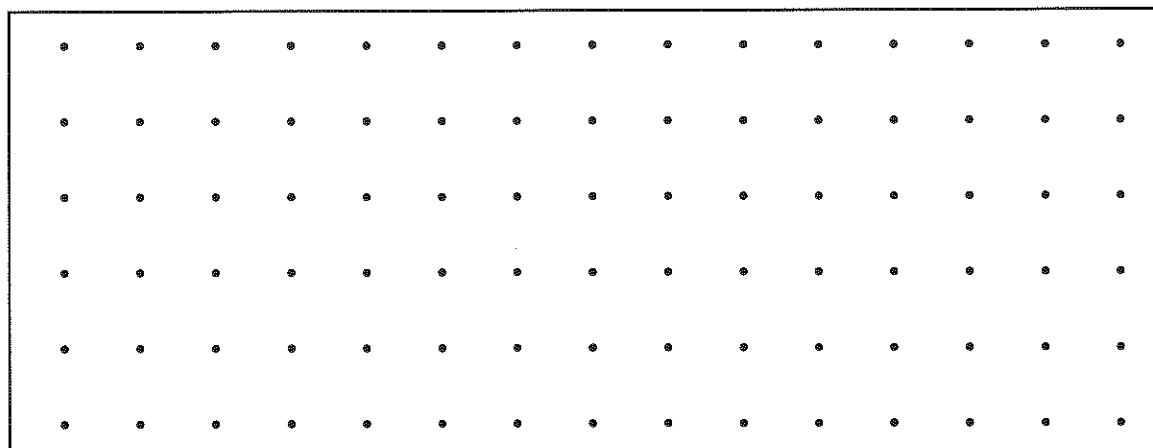
Problem Solving

- 1 On the dotted paper below, draw a triangle with a right angle.



Can you draw a triangle with 2 right angles? _____

- 2 On the dotted paper below, draw a shape with 4 sides and 2 right angles.



What do you notice about the other angles in the shape?
