Name:

Maths Assessment Year 4 Term 3: Geometry – Properties of Shapes

1. Compare and classify geometric shapes, based on their properties and sizes (including triangles and quadrilaterals).
2. Identify acute and obtuse angles and compare and order angles.
3. Identify lines of symmetry in 2D shapes presented in different orientations
4. Complete a simple symmetrical figure with respect to a specific line of symmetry.

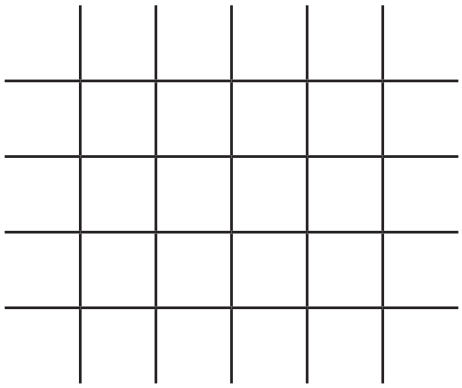
Name: Date:

15 total marks

Maths Assessment Year 4 Term 3: Geometry – Properties of Shapes

1. Compare and classify geometric shapes, based on their properties and sizes (including triangles and quadrilaterals).

a) Draw an isosceles triangle.



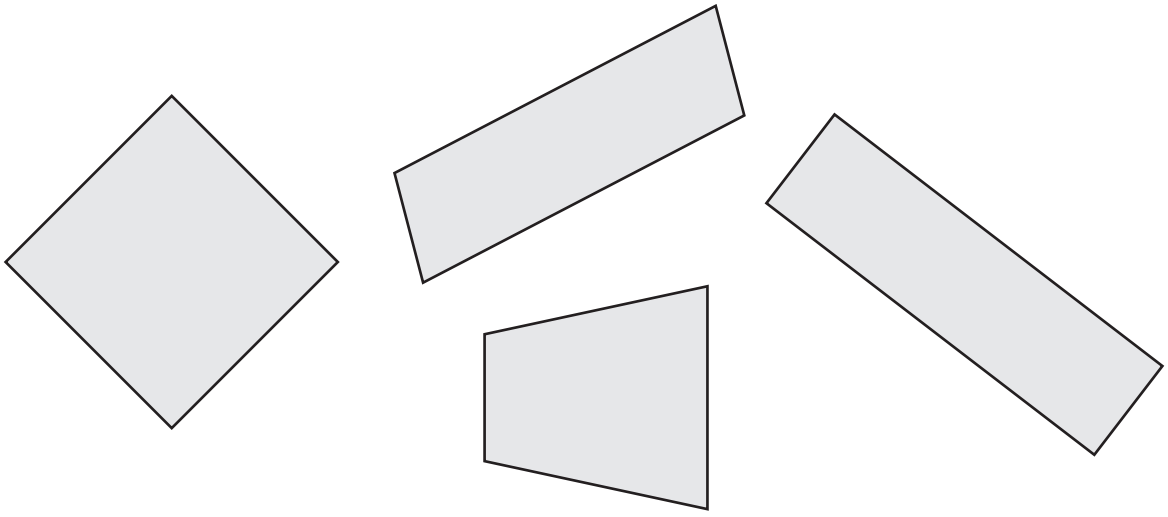
Complete this sentence:

An equilateral triangle has equal _____ and equal _____ .

2 marks

b) Complete the following Carroll diagram by writing the names of the shapes below.

	Has at least 1 right angle	Has no right angles
Rectangle		
Not a Rectangle		



2 marks

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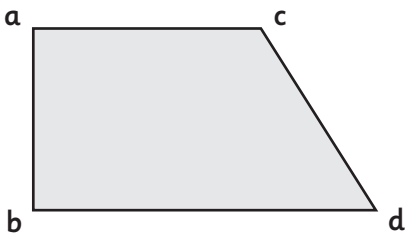
2. Identify acute and obtuse angles and compare and order angles.

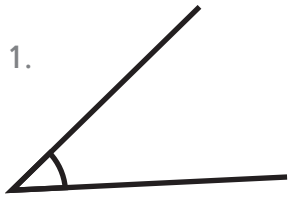
a) In this quadrilateral, identify which angles are acute, right angles and obtuse angles.

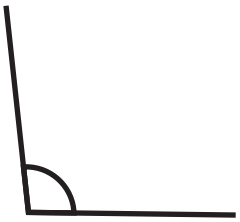


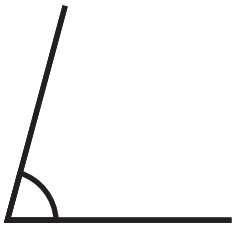
acute ☐ right angle ☐ obtuse ☐

3 marks

b) Order these angles from smallest angle to largest – write the numbers on the line.

1. 

2. 

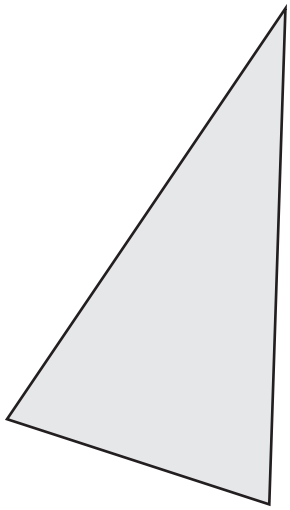
3. 

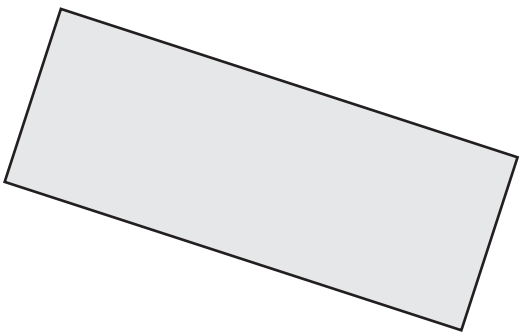
Order smallest to largest ☐

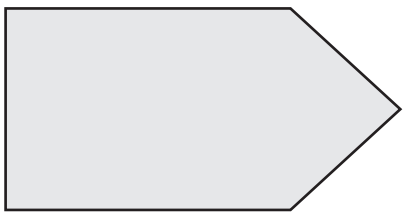
1 mark

3. Identify lines of symmetry in 2D shapes presented in different orientations.

a) Draw in all lines of symmetry on each shape. Use a pencil and ruler, if there are no lines of symmetry leave the shape blank. You can use a mirror and/or tracing paper to help.







3 marks

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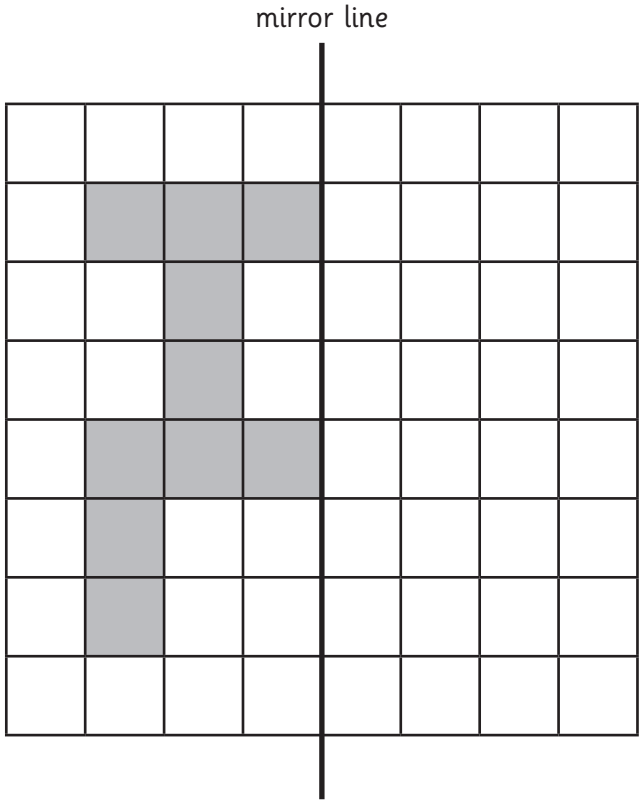
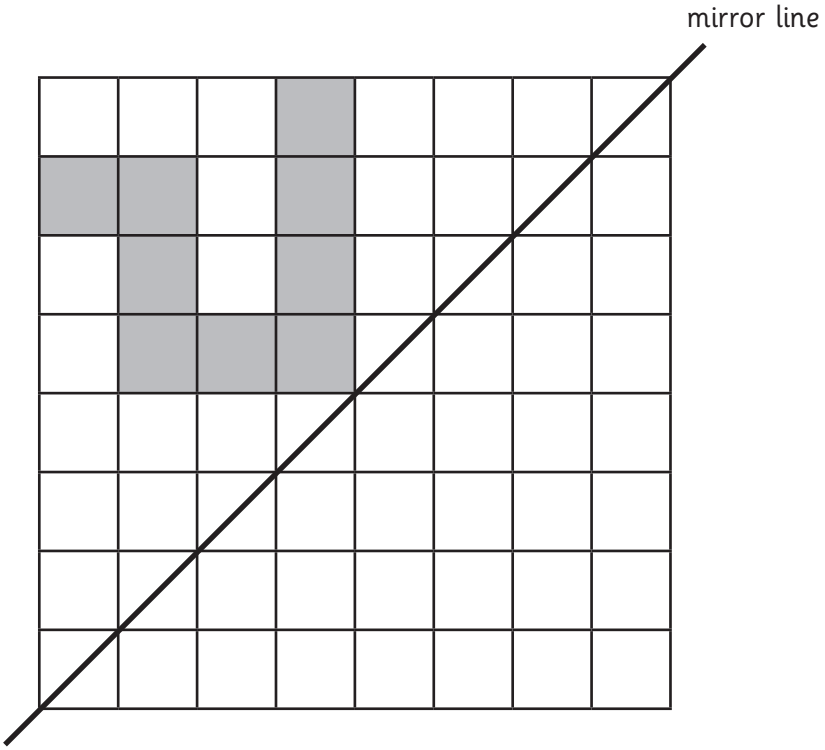
4. Complete a simple symmetrical figure with respect to a specific line of symmetry.

a) Reflect the shaded squares across the mirror line:



2 marks

b)



2 marks

Total for this page

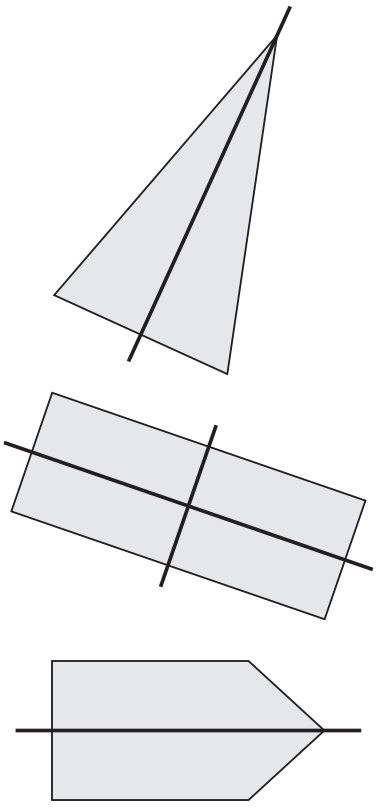
Answer Sheet: Maths Assessment Year 4 Term 3: Geometry - Properties of Shapes

<table>
<tr><th>question</th><th>answer</th><th>marks</th><th>notes</th></tr>
<tr><td colspan="4">1. Compare and classify geometric shapes, based on their properties and sizes (including triangles and quadrilaterals).</td></tr>
<tr><td>a</td><td>Any triangle with 2 equal sides.

An equilateral triangle has equal <u>(length) sides</u> and equal <u>angles</u>.</td><td>2</td><td>Award 1 mark if the intention is clear.

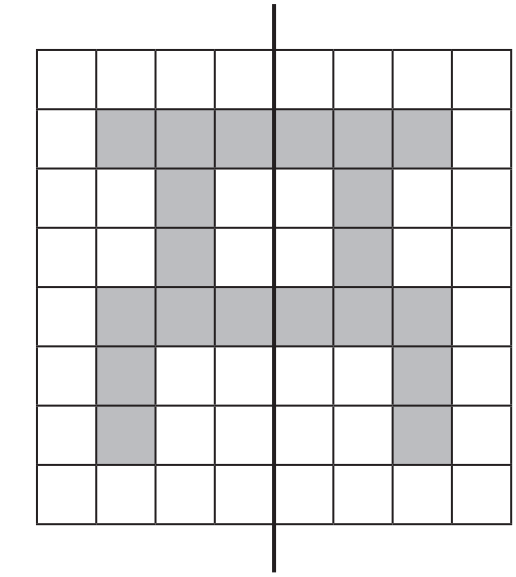
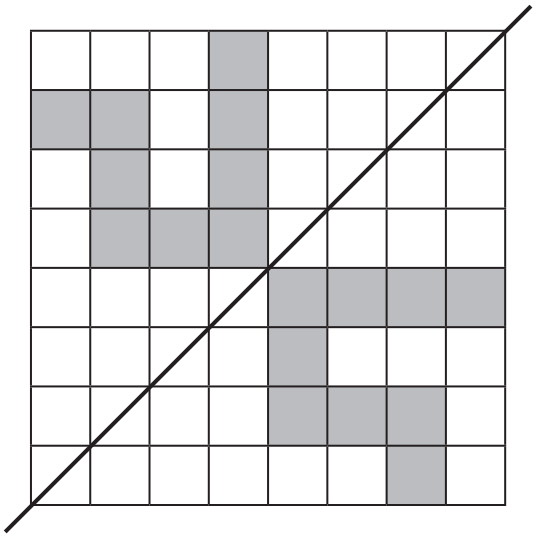
Award 1 mark for triangle with 2 sides the same.</td></tr>
<tr><td>b</td><td><table><tr><th></th><th>Has at least 1 right angle</th><th>Has no right angles</th></tr><tr><td>Rectangle</td><td>Square, Rectangle</td><td></td></tr><tr><td>Not a Rectangle</td><td></td><td>Trapezium
Parallelogram</td></tr></table></td><td>Up to 2 marks</td><td>Award 2 marks for all correct answers.

Award 1 mark for 2 or 3 correct answers.

(Note a square is a “special” rectangle.)</td></tr>
<tr><td colspan="4">2. Identify acute and obtuse angles and compare and compare and order angles.</td></tr>
<tr><td>a</td><td>acute [d] right angle [a, b] obtuse [c]</td><td>3</td><td>1 mark for each correct answer.</td></tr>
<tr><td>b</td><td>1; 3; 2</td><td>1</td><td></td></tr>
<tr><td colspan="4">3. Identify lines of symmetry in 2D shapes presented in different orientations.</td></tr>
<tr><td></td><td>  </td><td>up to 3 marks</td><td>Accept a line drawn near to the central position.

Accept 2 lines drawn near to the central position. Both must be drawn.

Accept a line drawn near to the central position</td></tr>
</table>

question	answer	marks	notes
4. Complete a simple symmetrical figure with respect to a specific line of symmetry.			
a		2	All squares to be correctly shaded to award 2 marks. 1 mark if one error.
b		2	All squares to be correctly shaded to award 2 marks. 1 mark if one error.
		Total 15	