Maths Assessment Year 3 Term 2: Geometry - Properties of Shapes

1. Draw 2D shapes; recognise 3D shapes in different orientations and describe them.

2. Recognise angles as a property of shape or a description of a turn.

3. Identify right angles; identify whether angles are greater than or less than a right angle.

4. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Name: Date:

Maths Assessment Year 3 Term 2: Geometry – Properties of Shapes

1. Draw 2D shapes; recognise 3D shapes in different orientations and describe them.

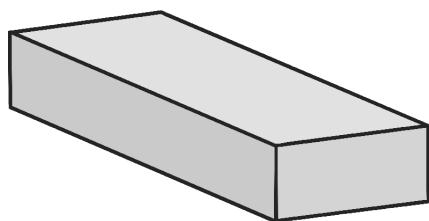**a)** Draw a hexagon (use a ruler):

b) Draw a rectangle (use a ruler):

c) Name these shapes and write the correct numbers for each property in the boxes.
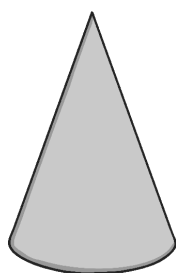
Properties

Number of faces: ☐

Number of vertices: ☐

Number of edges: ☐

Name of shape ☐

Properties
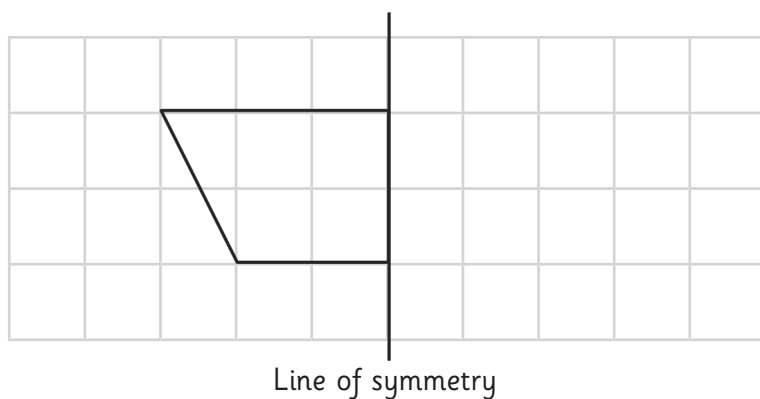
Number of curved faces: ☐

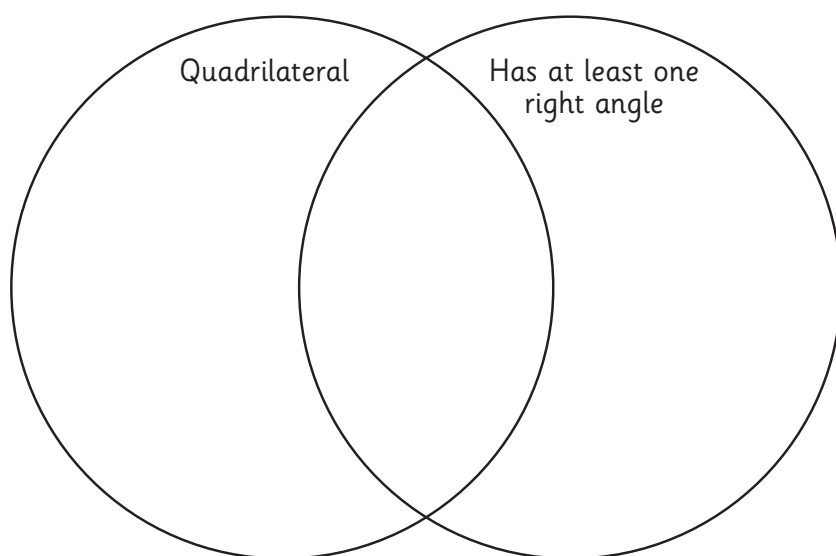Number of flat faces: ☐

Name of shape ☐

d) Complete this shape:

Line of symmetry

e) Draw these shapes in the correct place in the Venn diagram:

Quadrilateral   Has at least one
                        right angle

2. Recognise angles as a property of shape or a description of a turn.

a) Circle the angle that is the same as:

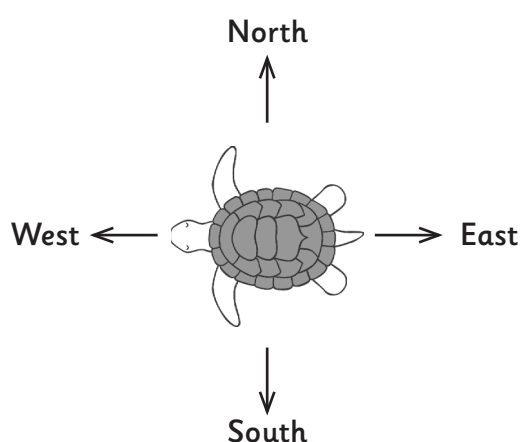**b)** Circle the largest angle.

3. Mark the right angles on these shapes. One has been done for you:

a) Mark the right angles on these shapes. One has been done for you:

b) How many right angles are there in $\frac{3}{4}$ of a complete turn?

c) The turtle is facing West. After one right angle turn anti clockwise, where will he be facing?

North

West **East**

He will be facing

South

d) Circle the angles that are smaller than a right angle.

4. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

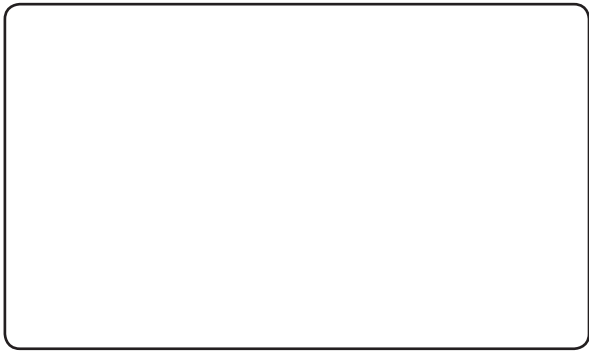Use a ruler to draw lines as instructed.

a) Draw a horizontal line.
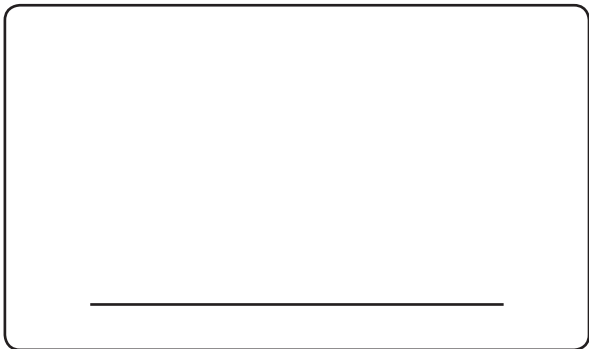
b) Draw a vertical line.

c) Draw a line parallel to the one in the box.

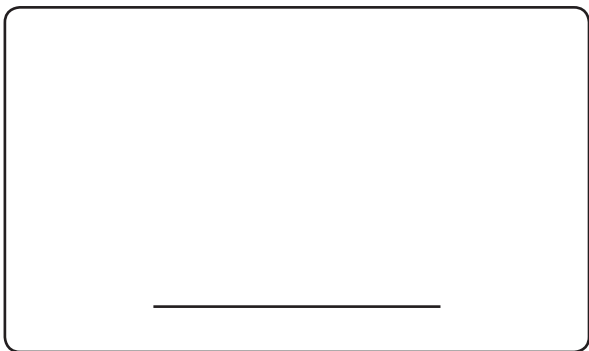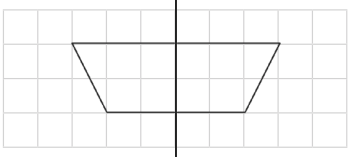**d)** Draw a line perpendicular to the one in the box.

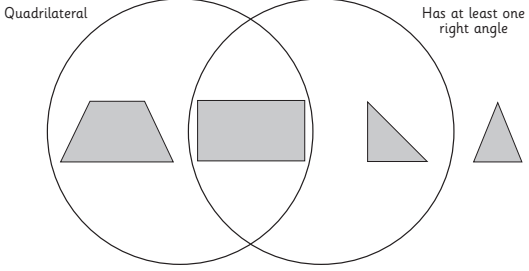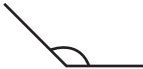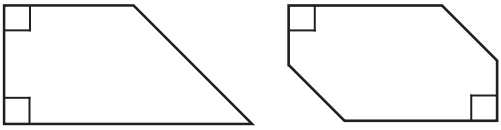**e)** Draw a line shorter than the given line.

1 mark

1 mark

1 mark

1 mark

Total for this page

question	answer	marks	notes
1. Draw 2D shapes; recognise 3D shapes in different orientations and describe them.			
a	Any 6 sided shape with straight sides.	1	Do not award marks if the child has not used a ruler.
b	A 4 sided shape with opposite sites equal and 4 right angles with straight sides.	1	Do not award marks if the child has not used a ruler. Allow a range of error for the shape. Note a square is a special type of a rectangle so can be accepted.
c	Name of shape: **cuboid** Number of faces: **6** Number of vertices: **8** Number of edges: **12**	1	Award one mark for correct name of shape and all the properties correct.
	Name of shape: **cone** Number of curved faces: **1** Number of flat faces: **1**	1	Award one mark for correct name of shape and all the properties correct.
d		1	Award one mark for a drawing that resembles the answer. The 2 corners should be close to the correct points.
e		2	Award two marks for all shapes correctly placed. Award one mark for 2 or 3 shapes correct. Allow for some errors in drawing as long as it is clear which triangles and quadrilaterals are which.
2. Recognise angles as a property of shape or a description of a turn.			
a		1	
b		1	
3. Identify right angles; identify whether angles are greater than or less than a right angle.			
a		3	Award one mark for each correctly identified right angle. Take off one mark for each angle incorrectly ticked. If there are more incorrect than correct answers, award 0 marks.
b	3 right angles	1	
c	South	1	
d		1	

question	answer	marks	notes
4. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.			
a		1	Award one mark for a line horizontal on the page. Allow a small margin of error. The line must be drawn with a ruler.
b		1	Award one mark for a line vertical on the page. Allow a small margin of error. The line must be drawn with a ruler.
c		1	Award one mark for a line parallel to the one given on the page. Allow a small margin of error. The line must be drawn with a ruler.
d		1	Award one mark for a line perpendicular to the one given on the page. Allow a small margin of error. The line must be drawn with a ruler.
e	A line shorter than the one given.	1	Award one mark for a line shorter than the one given on the page. Allow a small margin of error. The line must be drawn with a ruler. The line does not have to be parallel.
		Total 20	