

Name:



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

1. Draw 2-D shapes; recognise 3-D 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 3: Geometry – Properties of Shapes

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

a) Draw a quadrilateral (use a ruler):



b) Draw an octagon (use a ruler):

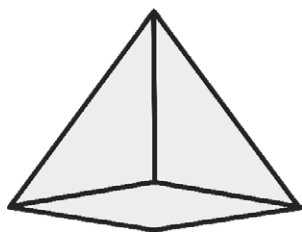


1 mark



1 mark

c) Name these shapes and tick the properties that are true:



Properties

Number of faces:

Number of vertices:

Number of edges:

Name of shape



1 mark

Name a shape with the following properties:

7 faces

15 edges

10 vertices

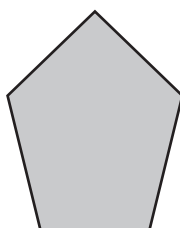
5 of the faces are rectangles.

Name of shape



1 mark

d) With a ruler, draw any lines of symmetry these shapes have:

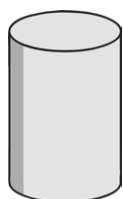


1 mark

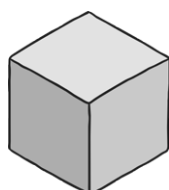


Total for this page

e) Write the name of the shapes in the correct place in the Carroll diagram.



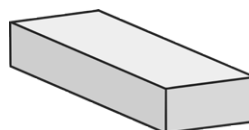
Cylinder



Cube



Cone



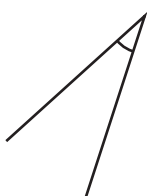
Cuboid

	Has at least one curved face	Has no curved faces
Has at least one square face		
Has no square faces		

2 mark

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

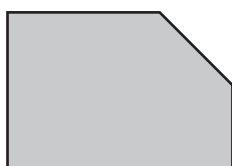
a) Circle the angles that are smaller than a right angle.



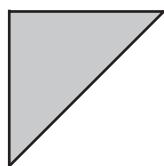
2 marks

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

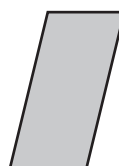
a) Write how many right angles has each shape?



right angles



right angles



right angles

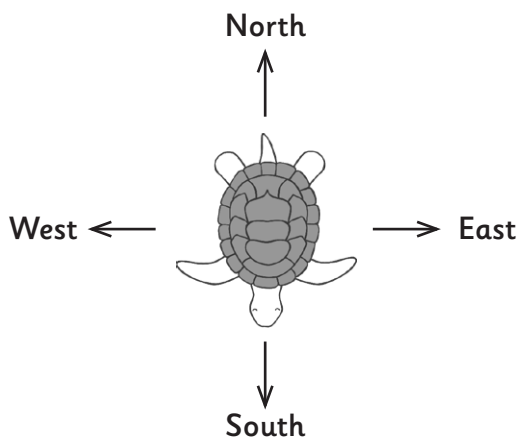
3 marks

Total for this page

b) How many right angles is $\frac{1}{2}$ of a complete turn?



c) The turtle is facing South. After three right angle turns clockwise, where will he be facing?



He will be facing

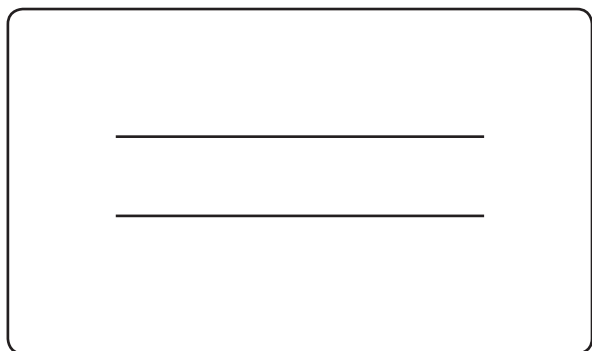


d) Circle the angle that is larger than a right angle.

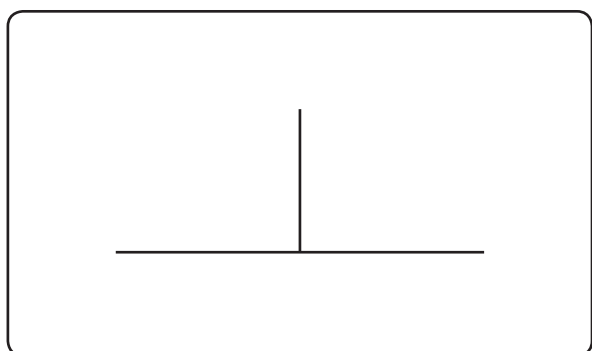


4. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Complete the description of each drawing:



a) These lines are: _____



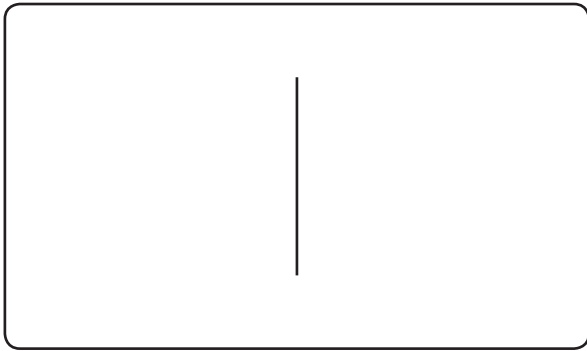
b) These lines are: _____





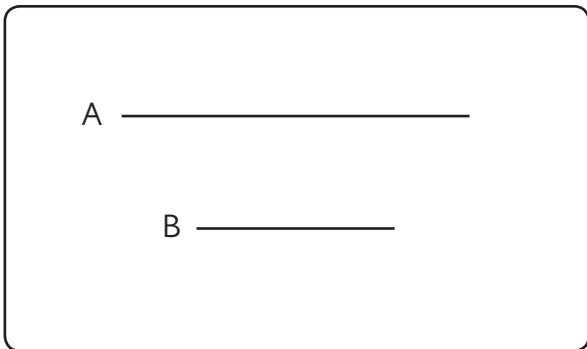
c) This line is: _____

1 mark



d) This line is: _____

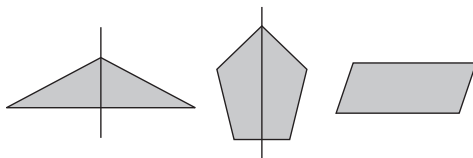
1 mark



e) Line B is _____ than line A.

1 mark

Total for
this page

question	answer	marks	notes									
1. Draw 2-D shapes; recognise 3-D shapes in different orientations and describe them.												
a	Any 4 sided shape with straight sides.	1	Do not award marks if the child has not used a ruler.									
b	Any 8 sided shape with straight sides.	1	Do not award marks if the child has not used a ruler. Allow a range of error for the shape.									
c	Name of shape: square based pyramid Number of faces: 5 Number of vertices: 5 Number of edges: 8	1	Award one mark for correct name of shape and all the properties correct.									
	Name of shape: pentagonal prism	1	Award one mark for an answer that includes "pentagon" and "prism" even if the answer is not completely accurate. eg pentagon prism. Small errors in spelling are allowed as long as the intention is clear.									
d		1	Award one mark for a drawing that resembles the answer. The 2 corners should be close to the correct points.									
e	<table border="1"><tr><td></td><td>Has at least one curved face</td><td>Has no curved faces</td></tr><tr><td>Has at least one square face</td><td></td><td>Cube</td></tr><tr><td>Has no square faces</td><td>Cylinder Cone</td><td>Cuboid</td></tr></table>		Has at least one curved face	Has no curved faces	Has at least one square face		Cube	Has no square faces	Cylinder Cone	Cuboid	2	Award two marks for all shapes correctly placed. Award one mark for 2 or 3 shapes correct.
	Has at least one curved face	Has no curved faces										
Has at least one square face		Cube										
Has no square faces	Cylinder Cone	Cuboid										
2. Recognise angles as a property of shape or a description of a turn.												
a	acute obtuse right angled	3	Award one mark for each correct answer.									
3. Identify right angles; identify whether angles are greater than or less than a right angle.												
a	3, 1, 0	3	Award one mark for each shape given the correct number of right angles.									
b	2 right angles	1										
c	East	1										

question	answer	marks	notes
4. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.			
a	parallel	1	Award one mark for the correct answer. Allow minor spelling mistakes.
b	perpendicular	1	Award one mark for the correct answer. Allow minor spelling mistakes.
c	horizontal	1	Award one mark for the correct answer. Allow minor spelling mistakes.
d	vertical	1	Award one mark for the correct answer. Allow minor spelling mistakes.
e	shorter	1	Award one mark for the correct answer. Allow minor spelling mistakes.
		Total 20	