

Name:



## Maths Assessment Year 2: Geometry – Properties of Shapes

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1. Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.
2. Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.
3. Identify 2D shapes on the surface of 3D shapes.
4. Compare and sort common 2D and 3D shapes and everyday objects.

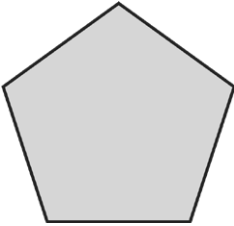
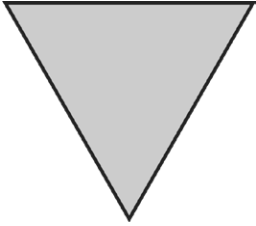
Name:

Date:

## Maths Assessment Year 2: Geometry – Properties of Shapes

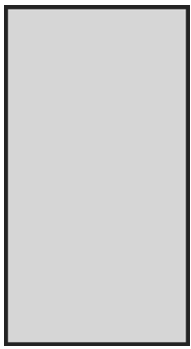
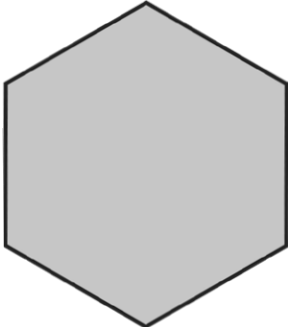
1. Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.

Name these shapes and describe their properties.


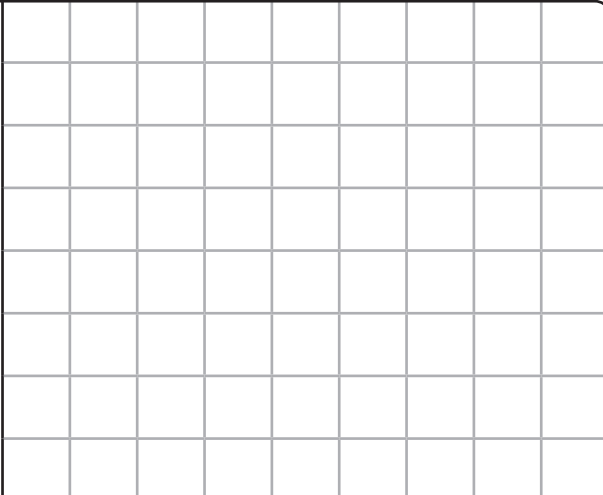
	
a) Name of shape <input type="text"/>	b) Name of shape <input type="text"/>
Number of sides <input type="text"/>	Number of sides <input type="text"/>
Number of corners <input type="text"/>	Number of corners <input type="text"/>

4 marks

Use a ruler to draw one line of symmetry through the following shapes.

c) 	d) 
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2 marks

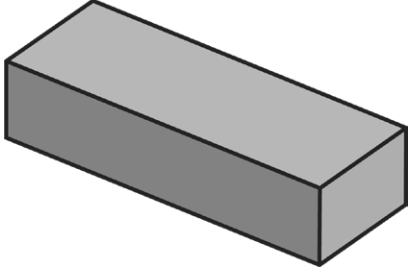
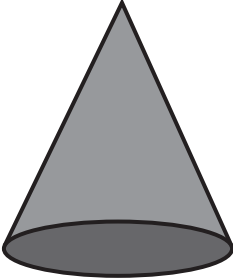
e) I am thinking of a shape. It has 4 sides all the same length, 4 corners and 4 right angles. Can you draw the shape I am thinking of? 	
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1 mark

Total for this page

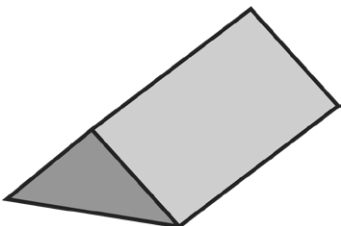
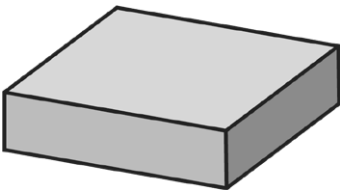
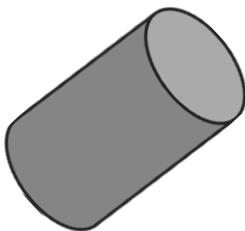
2. Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.

Name these shapes and fill in the properties.

<p>a) Name of shape <input type="text"/></p>  <p>Number of faces <input type="text"/></p> <p>Number of edges <input type="text"/></p> <p>Number of vertices <input type="text"/></p>	<p>b) Name of shape <input type="text"/></p>  <p>Number of faces <input type="text"/></p> <p>Number of edges <input type="text"/></p> <p>Number of vertex <input type="text"/></p>
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4 marks

c) I am thinking of a 3D shape. It has two flat circular faces and one curved rectangular face. It has no vertices. Tick the shape I am describing.

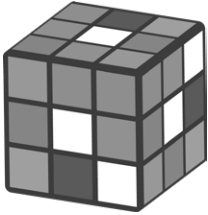



		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1 mark

Total for this page

3. Identify 2D shapes on the surface of 3D shapes.

Draw a line to show where you can find the 2D shape on these everyday items.

circle	
rectangle	
square	
triangle	

2 marks

4. Compare and sort common 2D and 3D shapes and everyday objects.

a) Tell me 2 things that are the same and one thing that is different about these 2 shapes.



Same

Same

Different

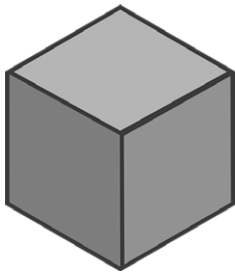
3 marks

Total for this page

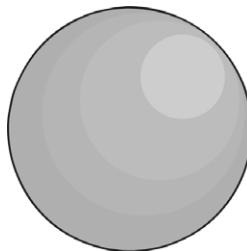
b) Sort these 3D shapes into the table

less than 1 vertex	more than 1 vertex

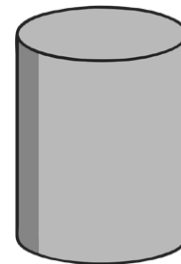
cube



sphere



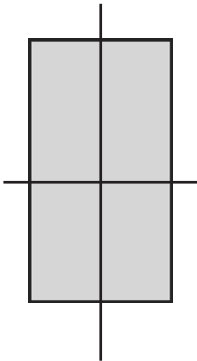
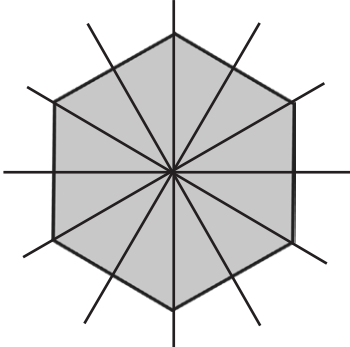
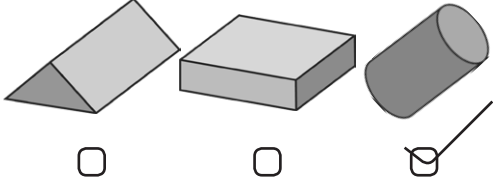
cylinder



3 marks



Total for  
this page

question	answer	marks	notes
<b>1. Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.</b>			
a	Pentagon 5 sides 5 corners	2	One mark for naming the shape and 1 for all properties correct
b	Triangle 3 sides 3 corners	2	One mark for naming the shape and 1 for all properties correct
c		1	One mark for drawing any line of symmetry
d		1	One mark for drawing any line of symmetry
e	Any size square	1	
<b>2. Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.</b>			
a	Cuboid 6 faces 12 edges 8 vertices	2	1 mark for the name and 1 for all the correct properties.
b	Cone 2 faces 1 edge 1 vertex	2	1 mark for the name and 1 for all the correct properties.
c		1	1 mark for correctly identifying and naming the shape

question	answer	marks	notes						
3. Identify 2D shapes on the surface of 3D shapes.									
		2	1 mark for 2 or 3 correct 2 marks for all correct						
4. Compare and sort common 2D and 3D shapes and everyday objects.									
a	<p>Same-They both have 4 vertices, 4 right angles and 4 sides</p> <p>Different One has sides all the same length and the other has 2 long sides and 2 short sides.</p> <p>Or a square is a special sort of rectangle which has 4 equal length sides.</p>	3	Accept any 2 similarities and 1 difference. Accept any words to a similar effect						
b	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="2" style="padding: 5px;">less than 1 vertex</th> <th style="padding: 5px;">more than 1 vertex</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">                     sphere  </td> <td style="padding: 5px;">                     cylinder  </td> <td style="padding: 5px;">                     cube  </td> </tr> </tbody> </table>	less than 1 vertex		more than 1 vertex	sphere 	cylinder 	cube 	3	1 mark for each correct 3 for all correct.
less than 1 vertex		more than 1 vertex							
sphere 	cylinder 	cube 							
		Total 20							