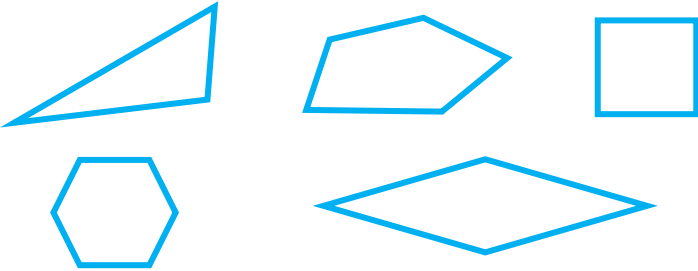
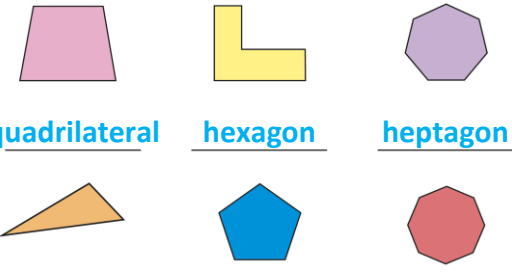
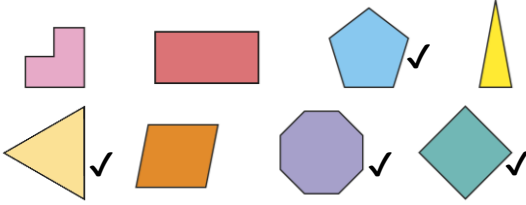


Y4 – Summer – Block 4 – Step 6 – Polygons Answers

Question	Answer
1	<p>a) All the shapes on the left have straight sides and no gaps. Two of the shapes on the right have curves. One had a gap. One is a 3-D shape.</p> <p>b) Polygons are 2-D shapes. They are made up of straight sides. Where the straight lines meet, they form an angle. They are closed shapes, which means that there are no gaps in their sides.</p>
2	<p>multiple possible answers, e.g.</p> 
3	 <p><u>quadrilateral</u> <u>hexagon</u> <u>heptagon</u></p> <p><u>triangle</u> <u>pentagon</u> <u>octagon</u></p>
4	 <p>In the regular polygons, all the sides are the same length.</p>
5	<p>No The interior angles all need to be the same size.</p>
6	<p>24 cm</p>
7	<p>6 mm</p>
8	<p>a) 50 cm Work out both perimeters and then find the difference, or work out that the octagon has 5 more sides than the triangle and so the difference is $5 \times$ the straw length.</p> <p>b) square, pentagon (or another triangle)</p> <p>c) square: 40 cm pentagon: 50 cm</p>