

Canonbury Home Learning

Year 6 Maths

Developing activity

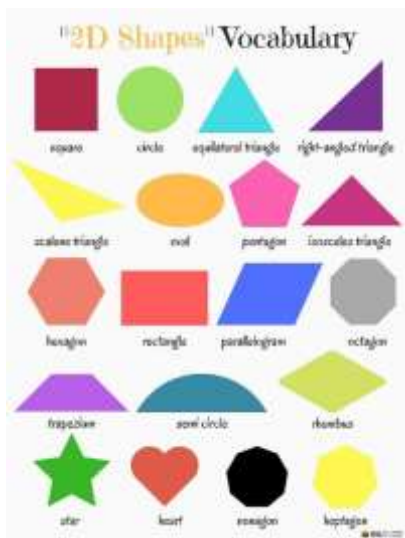
Lesson 4

LO: TBAT use properties to identify shapes.

Success Criteria:

- | |
|------------------------------------------------|
| 1. Recap shape vocabulary. |
| 2. Read the statements. |
| 3. Match the statements to the correct shapes. |

Model



Vocabulary

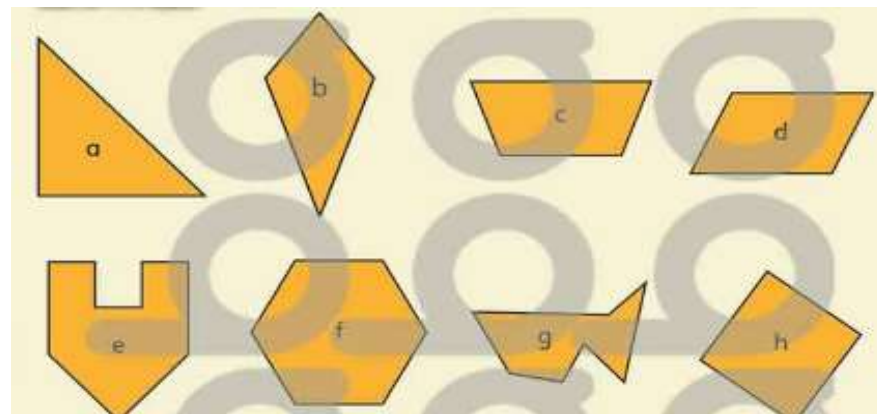
Geometry: the study of shapes

Sides:	
Vertices:	
Parallel Lines:	
Quadrilaterals:	

Now you try...

Read the clues and write down the letter and name of the shape that each set of clues describes.

1 It has 4 equal sides and 4 equal angles.	3 It has only one set of parallel sides.	5 It is a regular hexagon.	7 It has 7 sides and 7 angles.
2 It has 9 sides. Some are perpendicular and some are parallel.	4 It has only one pair of perpendicular sides.	6 It has 2 equal obtuse angles and 2 unequal acute angles.	8 It has two pairs of parallel sides but no perpendicular sides.



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Expected/ Greater depth activity

Lesson 4

LO: TBAT solve problems including 2D shapes.

Task:

You are going apply your knowledge to solve several problems including 2D shapes.

Success Criteria:

1. Use properties to identify the shapes.
2. Revise 2D knowledge.
3. Draw the required 2D shapes accurately.
4. Identify the correct shape according to the descriptions.

Recap:



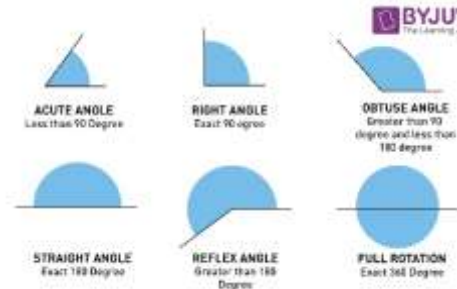
Vocabulary

Geometry, the study of shapes

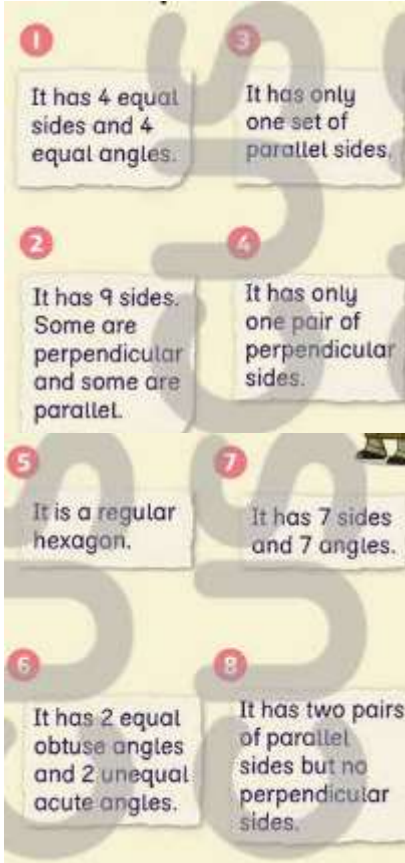
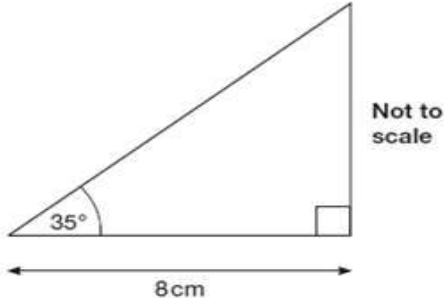
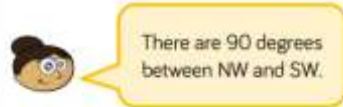
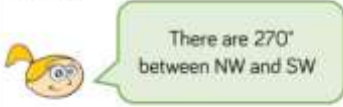
Sides:	
Vertices:	
Parallel Lines:	
Quadrilaterals:	

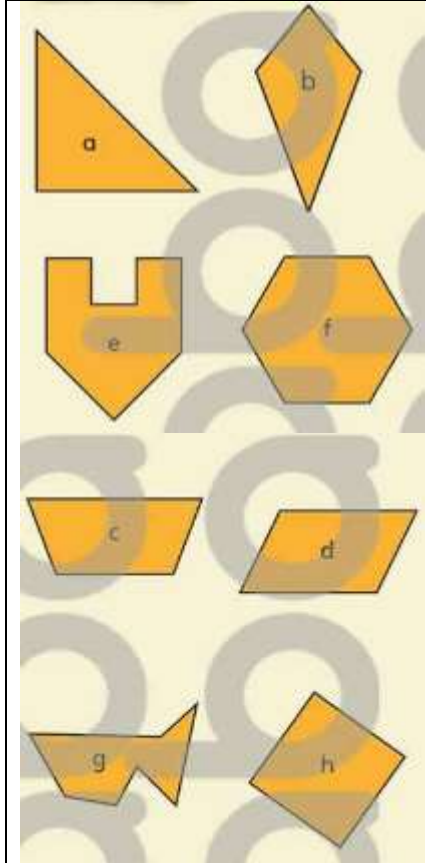
Types of Triangles

By Side	By Angle
 Equilateral Triangle has three equal sides	 Acute triangle has three angles < 90°
 Isosceles Triangle has two equal sides	 Right triangle has one angle = 90°
 Scalene Triangle has no equal sides	 Obtuse triangle has one angle > 90°



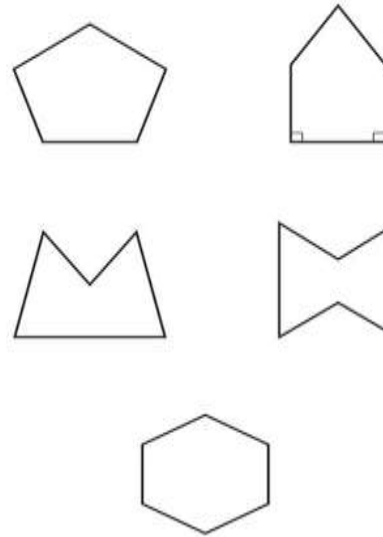
Complete at least 2 columns, more if you can!

Task 1	Task 2	Task 3	Task 4
<p>Practice Match the properties to the shape.</p> 	<p>Arithmetic</p> <p>1 $385 - 1 =$</p> <hr/> <p>2 $258 \times 1 =$</p> <hr/> <p>3 $28 + 7 =$</p> <hr/> <p>4 $4598 + 1000 =$</p> <p>5 $246 \times 0 =$</p> <hr/> <p>6 $\begin{array}{r} 9876 \\ + 2345 \\ \hline \end{array}$</p> <hr/> <p>7 $63 \times 5 =$</p>	<p>Problem Solving</p> <p>Task 1 Here is a sketch of a triangle. It is not drawn to scale.</p>  <p>Draw the full-size triangle accurately. Use an angle measurer (protractor) and a ruler. One line has been drawn for you.</p> <p>Task 2 A bicycle wheel has a diameter of 64 cm. What is the radius of the bicycle wheel?</p>	<p>Reasoning</p> <p>Task 1 Dora and Eva are asked how many degrees there are between North-West and South-West.</p> <p>Dora says,</p>  <p>Eva says,</p>  <p>Who do you agree with? Explain why.</p> <p>Task 2 If it takes 60 minutes for the minute hand to travel all the way around the clock, how many degrees does the minute hand travel in:</p> <ul style="list-style-type: none"> • 7 minutes • 12 minutes <p>How many minutes have passed if the minute hand has moved 162°?</p>



Task 3

Circle the pentagon with exactly four acute angles.



Task 4

Look at the letters below.

Circle the letter below that has both parallel and perpendicular lines.

A C E L Z

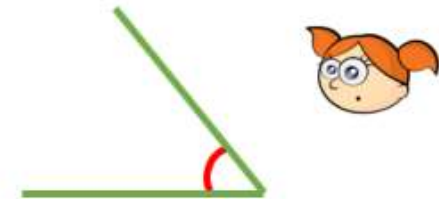
Task 3

Always, sometimes, never.

W to S = 90 degrees
NE to SW = 180 degrees
E to SE in a clockwise direction > 90°

Task 4

Alex measures this angle:



She says it is 130°

Explain what she has done wrong.