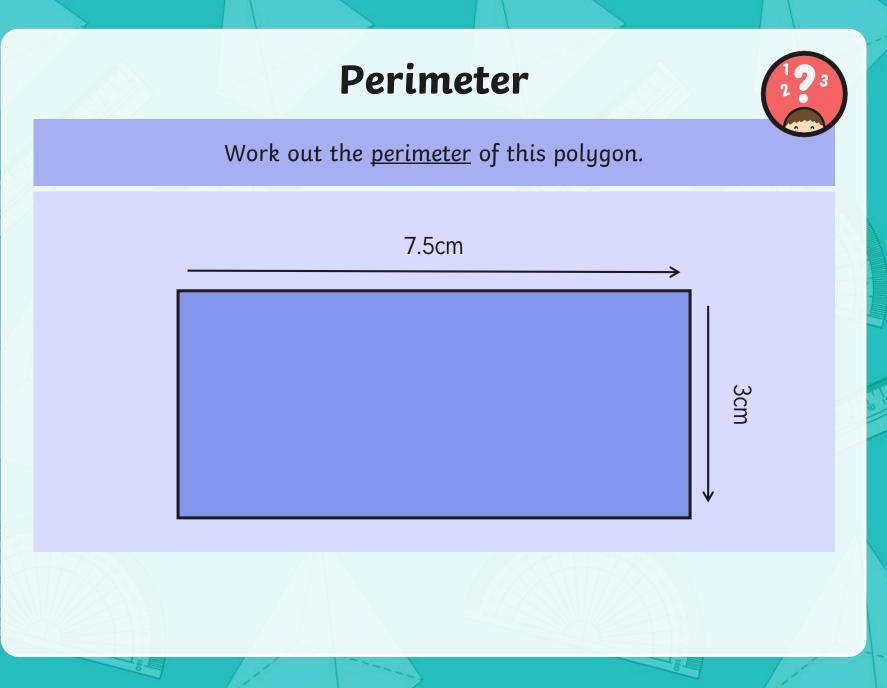
Warm-Up Challenge

Flashback 4

- 1) Change $\frac{7}{4}$ to a mixed number.
- 2) What is 47×32 ?
- 3) Fill in the missing number $36 \div ___= 4$
- 4) What is one hundred more than 28,409?

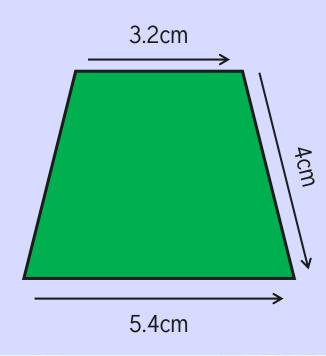






Perimeter

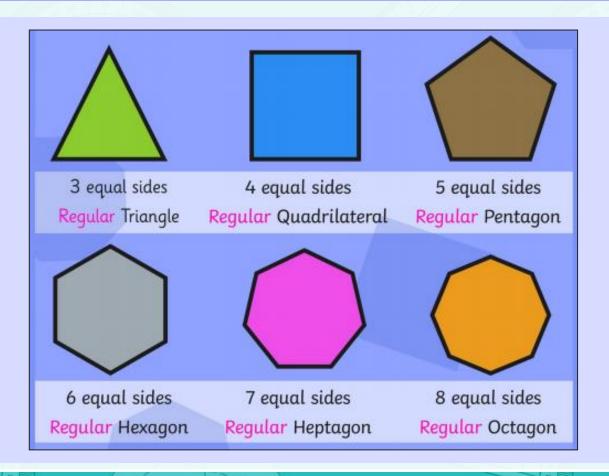
Work out the <u>perimeter</u> of this polygon.



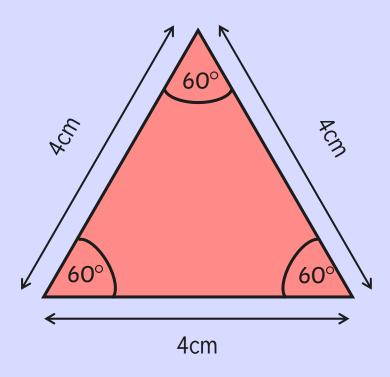
So, what is a '**Polygon**'?

A polygon is a shape with straight sides. If all of the sides and internal angles are the same size, the shape is regular. If they are not the same size, it is irregular.

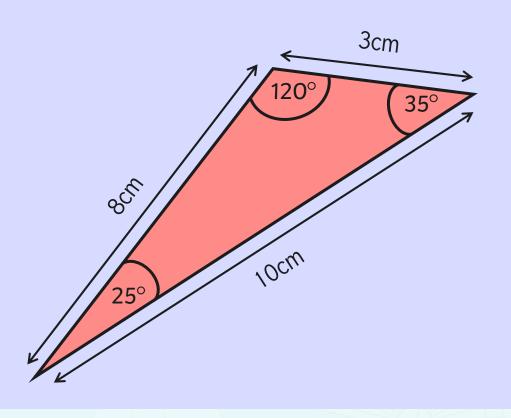
So, what is a '**Polygon**'?



A **regular** polygon is a <u>2D shape</u> where all the **angles** are **equal** and the **lengths** of the sides are **equal**.

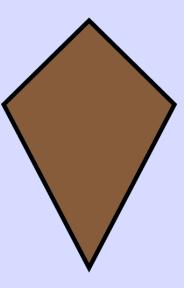


An **irregular** polygon is still a 2D shape but its sides and angles are not equal





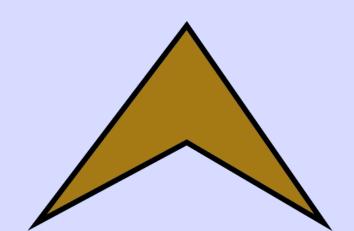
Is this polygon **regular** or **irregular**? How do you know?



Irregular



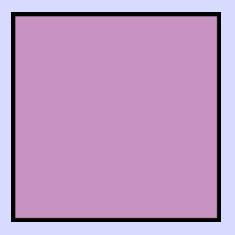
Is this polygon **regular** or **irregular**? How do you know?



Irregular



Is this polygon **regular** or **irregular**? How do you know?



Regular



Is this polygon **regular** or **irregular**? How do you know?

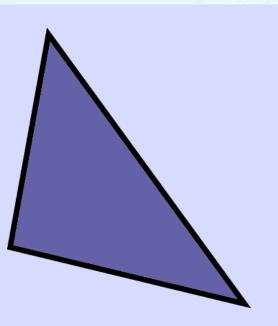


Irregular

twinkl.com



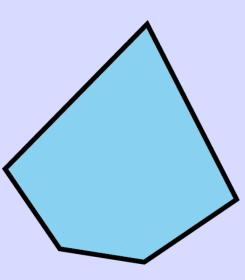
Is this polygon **regular** or **irregular**? How do you know?



Irregular



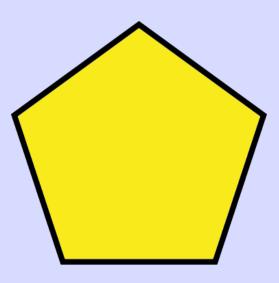
Is this polygon **regular** or **irregular**? How do you know?



Irregular



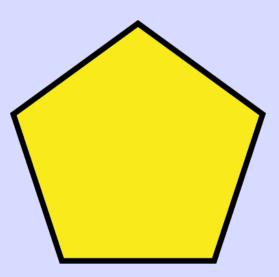
Is this polygon **regular** or **irregular**? How do you know?



Regular



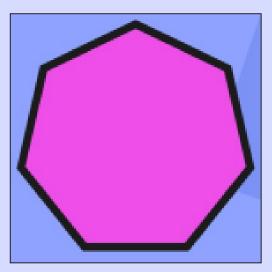
Yes, this shape is regular. But what **<u>type</u>** of polygon is it?



Regular Pentagon



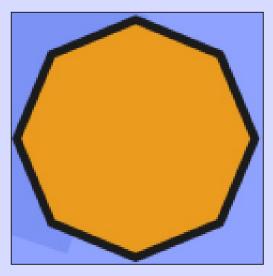
What type of polygon is this shape?



Regular Heptagon



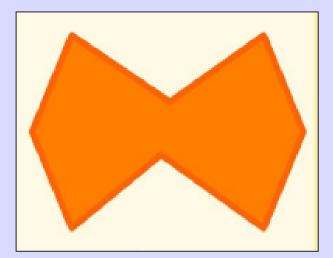
What type of polygon is this shape?



Regular Octagon



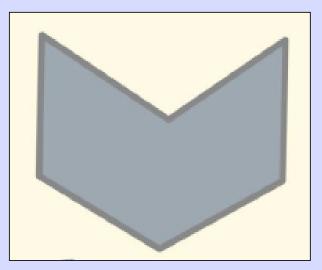
What type of polygon is this shape?



Irregular Octagon



What type of polygon is this shape?



Irregular Hexagon

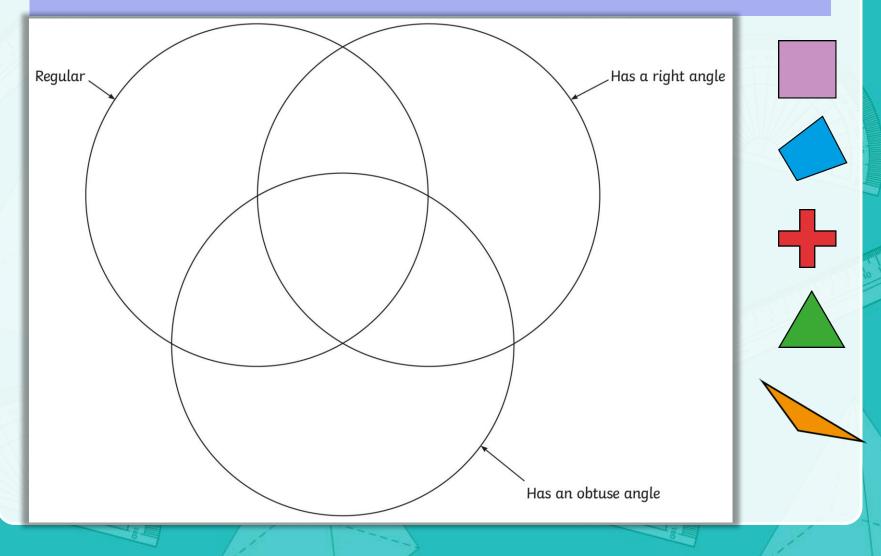
Classifying Polygons

Now lets think about classifying polygons based on the properties of their lengths and angles using a Carroll diagram.

	Dogular	Trroqular
.A.	Regular	Irregular
Right Angle		
No Right Angle		

Classifying Polygons

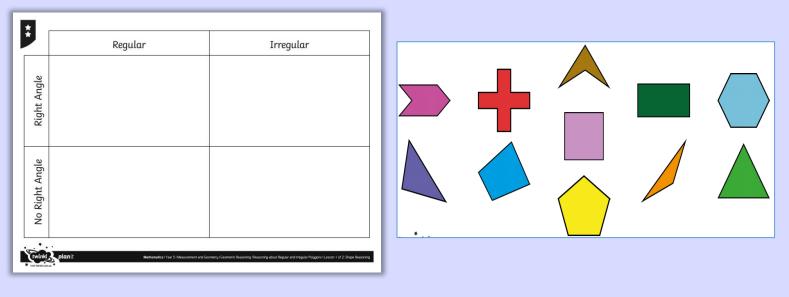
Now try to classify them using this diagram...



<u>Classifying Regular and</u> <u>Irregular Polygons</u>



Now it's time to show the true level of your knowledge and understanding... Turn to page 15 in your maths work booklet and carefully cut out one set of the polygons. Then, sort them using the Carroll Diagram on page 13 in your maths work booklet. Once you are happy with their locations, carefully glue them on to the page.



<u>Classifying Regular and</u> <u>Irregular Polygons</u>

Independent Activity 2:

Carefully cut out the remaining set of polygons on page 15 of your maths work booklet and then classify (sort) them using the diagram on page 14. Once you are happy with their locations, carefully glue them on to the page.

