

Have you answered your question from last time?

Make this number using only the numbers below.
How close can you get?

Use: + - X ÷

369

25 100 2 5 9 6

Brainwarmer

$8 \times 7 =$

$9 \times 10 =$

$9 \times 7 =$

$5 \times 9 =$

$245 \times 127 =$

$218 \times 23 =$

$10 \times 390.0 =$

$7 \times 2150 =$

$2133 \times ? = 4266$

$1256 \times ? = 7536$

$29 \times ? = 319$

$112 \times ? = 560$



Learning Question:

How can I investigate regular and irregular polygons?

Success Criteria:

I will be successful if I can-

- Recognise what a regular polygon is.
- Recognise what an irregular polygon is.
- Measure the angles and sides in regular and irregular polygons.
- STEM sentence: I know that a polygon is a closed shape with three or more sides.

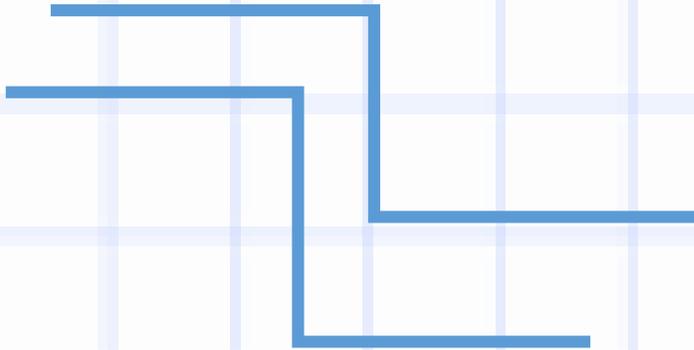
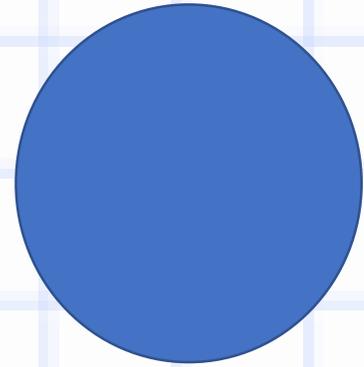
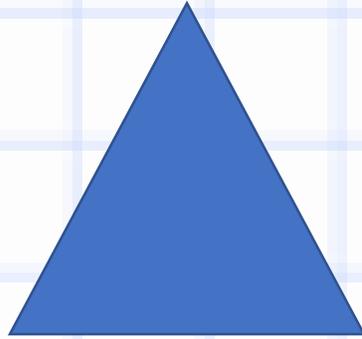
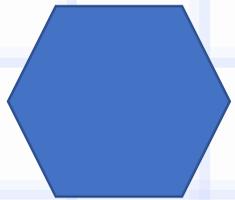
Vocabulary

- Regular polygons
- Irregular polygons
- Triangle
- Quadrilateral
- Pentagon
- Hexagon
- Octagon
- Nonagon
- Decagon

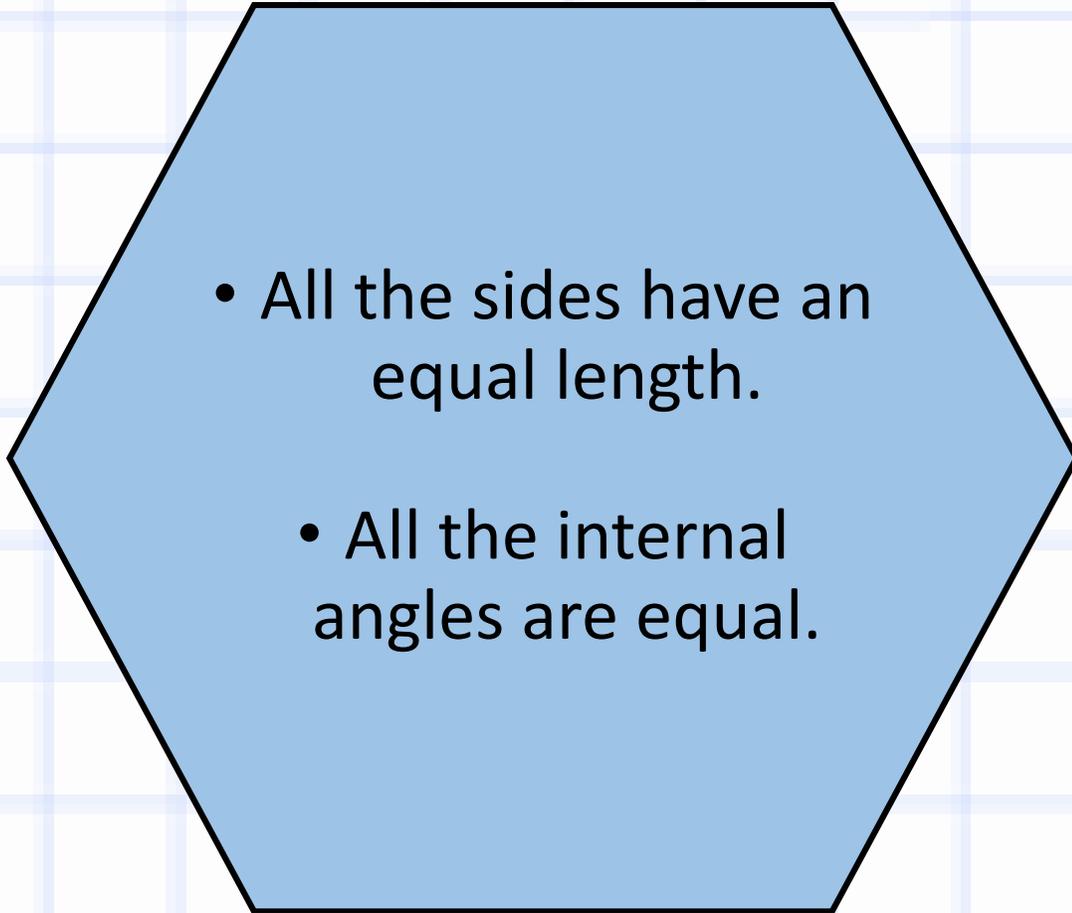
What is a polygon?

A closed shape with three or more sides.

A closed shape with three or more sides.
Which are a polygon?



What is a regular polygon?



A regular polygon

Regular polygons



Triangle



Quadrilateral



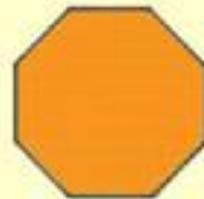
Pentagon



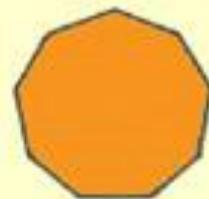
Hexagon



Heptagon



Octagon



Nonagon



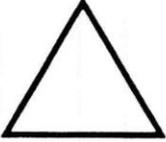
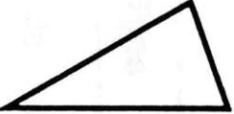
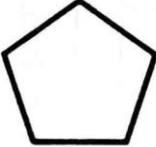
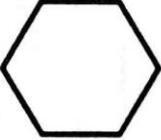
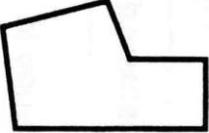
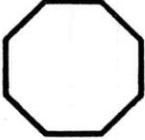
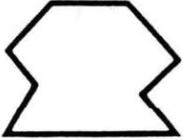
Decagon

What is an irregular polygon?

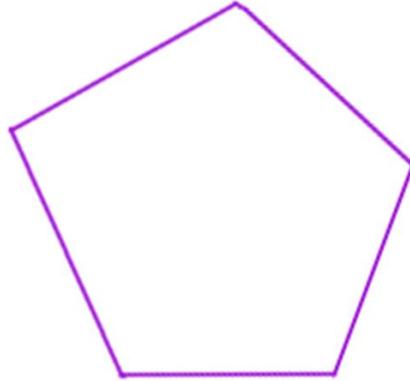
A closed shape with three or more sides.

What is different?

Regular and Irregular Polygons

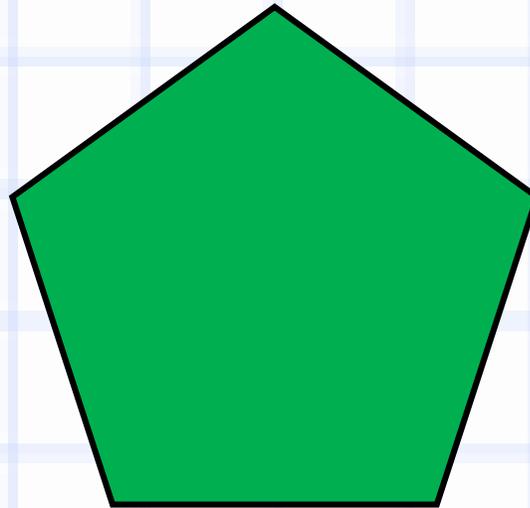
Name	Regular	Irregular
Triangle		
Quadrilateral		
Pentagon		
Hexagon		
Octagon		

Let's look at these polygons.



What are they called?

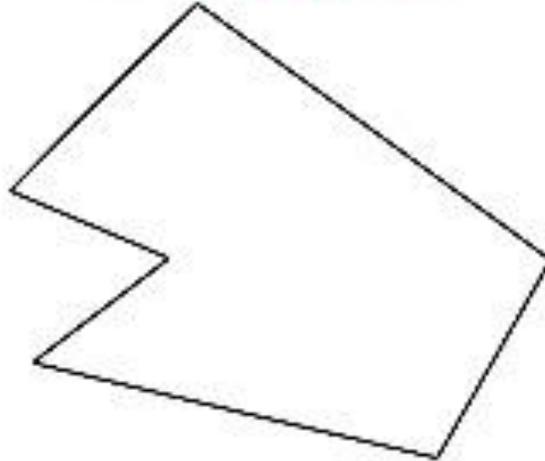
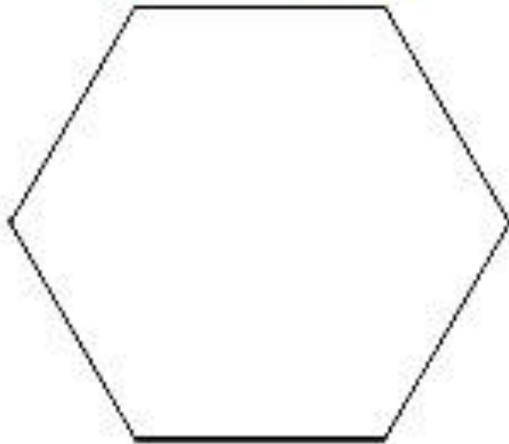
Which is regular and which is irregular?



How could we find out?

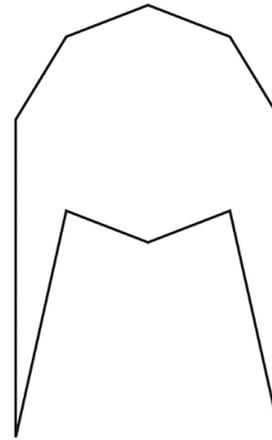
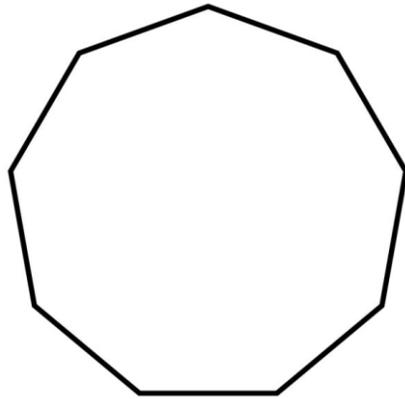
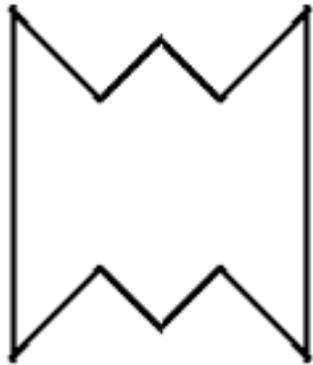
Harder

A hexagon has six sides and an octagon has eight sides. What are these shapes? Are they regular or irregular? How could we find out?

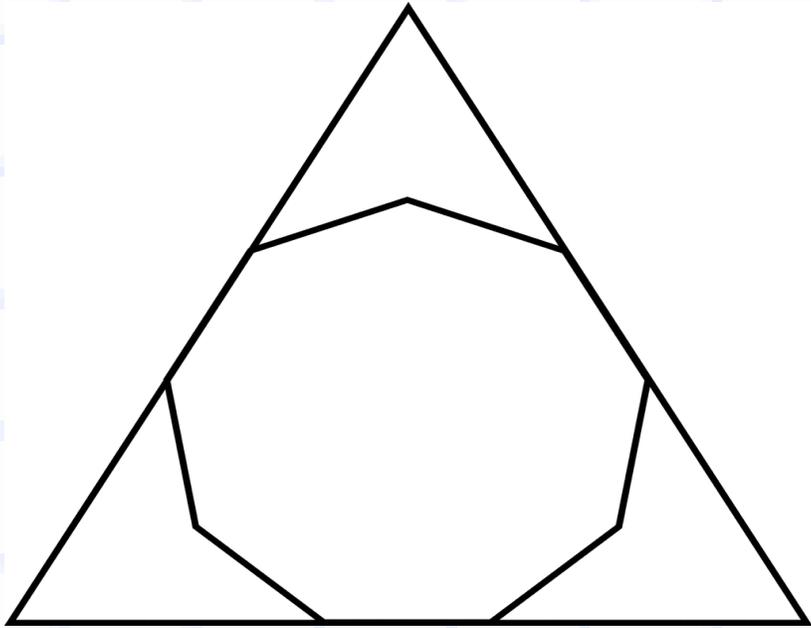


Hardest

A nonagon has nine sides and a decagon has ten sides. What are these shapes? Can you name them? Are they regular or irregular? Prove it!



Can you name these shapes within a shape and explain why they are regular or irregular? (TIP-mention the measurements of the sides and the angles. Also, remember the polygon rule).



start task!



Remember #PersonalTarget

How can I investigate regular and irregular polygons?

Hard

Identify which shapes are regular and which are irregular polygons.

Harder

Name the shape and say if it is a regular or an irregular polygon.

Hardest

Name regular and irregular polygons and prove how you know what it is called.

Herculean: Name regular and irregular polygons in other shapes and polygons. Prove how you know what they are called.



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- STEM sentence: I know that a polygon is a closed shape with three or more sides.

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True or false?

- Polygons are closed figures with closed curved or straight edges.
- Polygons are open figures with straight edges.
- A circle is a regular polygon.