# Classwork 4/2/2020

### **Polygon Attributes**

We know what a polygon is – today we will learn more about the attributes of a polygon

Good morning and hello Forth Graders from Mrs. Cronin!

Thursday 4-2-2020

Where To Find Your Work: https://lynncronin.weebly.com/ 4-2-2020 Polygon Attributes

**Learning Objectives:** We already know what polygons are – let's learn more about Polygons

Learning Activities: Please work through the PowerPoint, play polygon game

How I will see/check your work: Email me!!

How We Communicate: email Icronin@wtps.org

3.OA.A.1, 3.OA.C.7, 3.OA.D.9, 3.MD.C.5.b, 3.MD.C.6, 3.MD.C.7.b, 3.MD.C.7.d

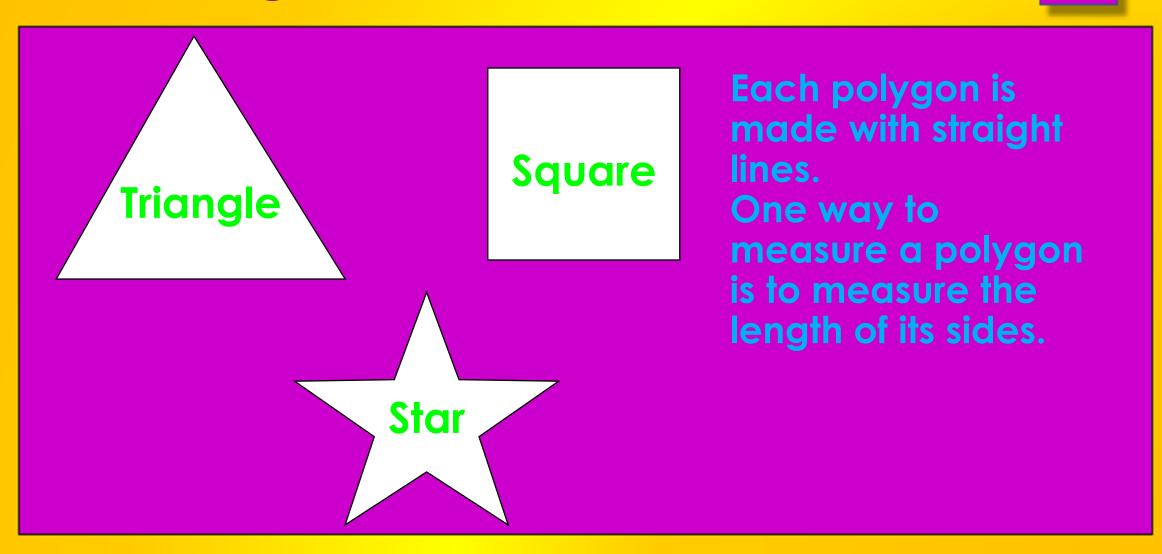
## polygon

a special kind of shape that is 2-D, has only straight lines and is closed.

## attribute

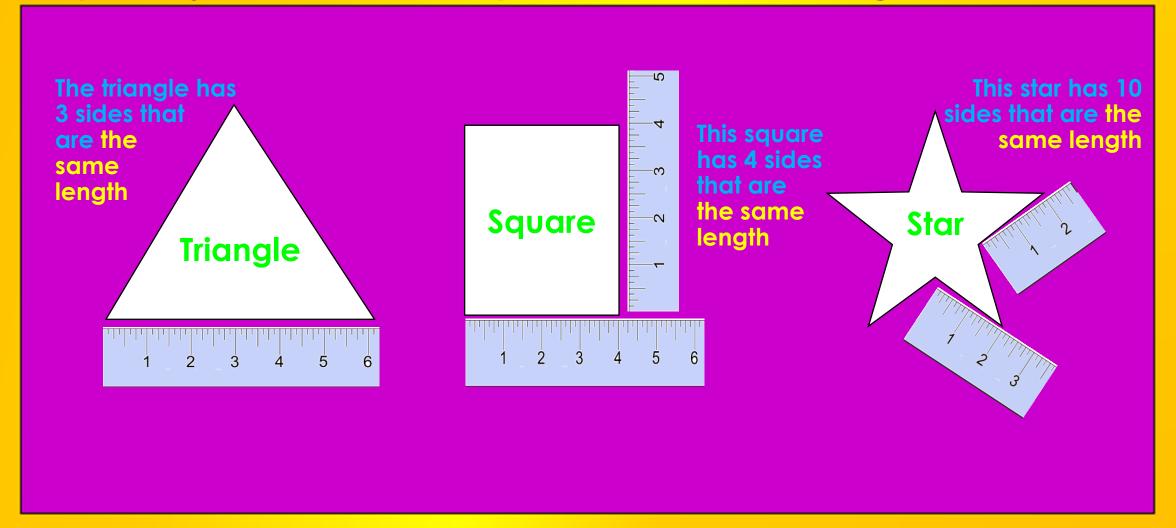
a description – attributes of a polygon include: side size, equality of sides, angles, and vertices

## Side Length.

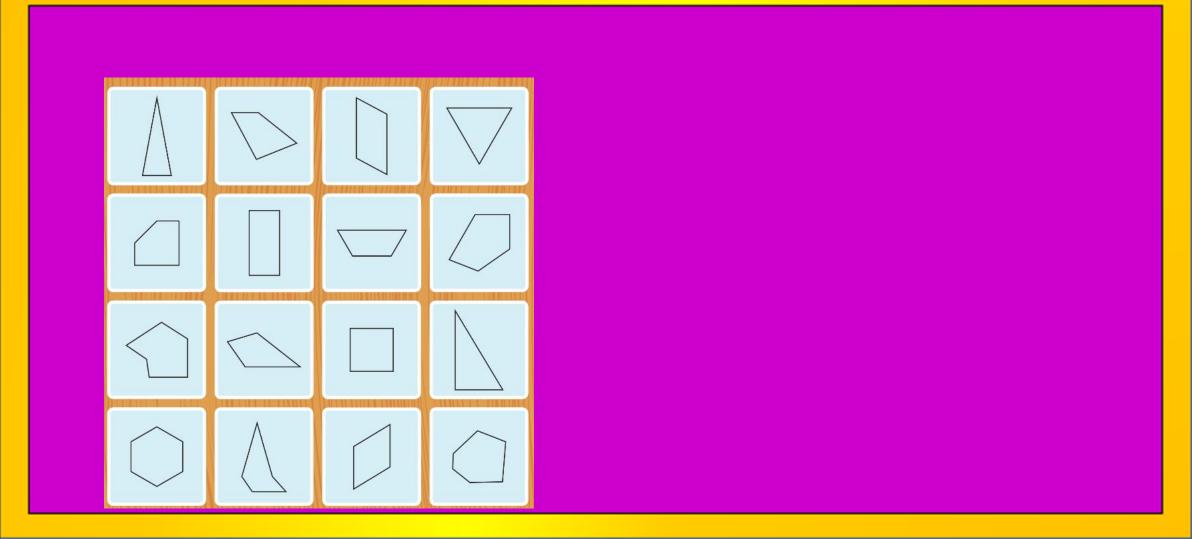


# Side Length. A ruler will help Square us do that! Star **Triangle**

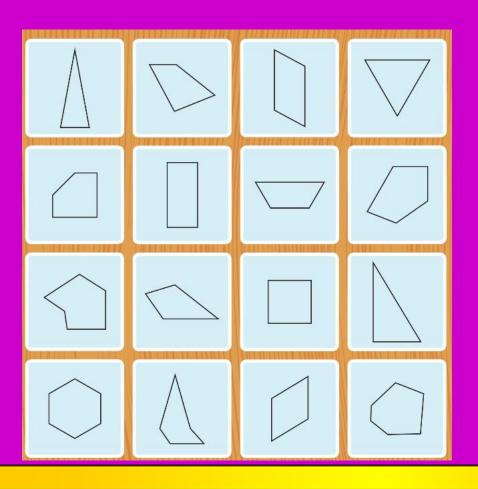
Most of the time we don't actually measure the side lengths of a shape, we just count how <u>many</u> sides are the same length.



# When we play shape capture we will see a screen that looks like this:

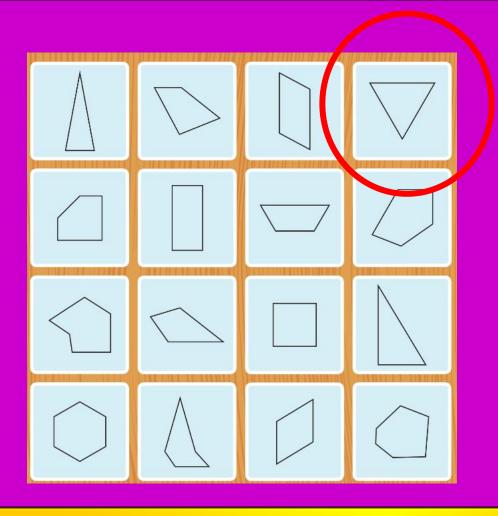


## When we play shape capture we will see a screen that looks like this:



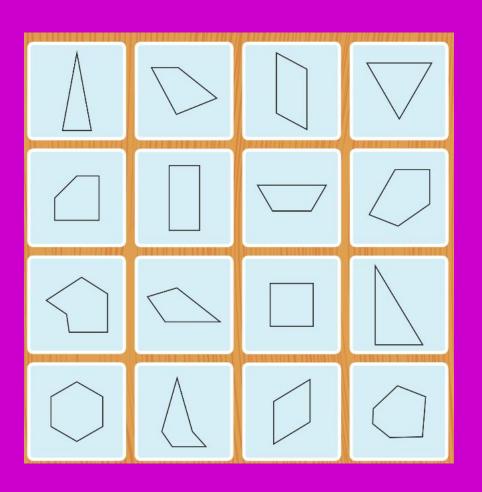
Can you find a shape that has three sides that are the same length?

## Perfect!



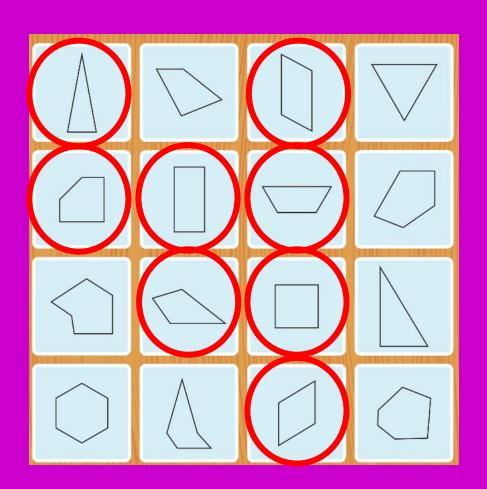
The equilateral triangle has three sides that are the same length!

## Try another one...



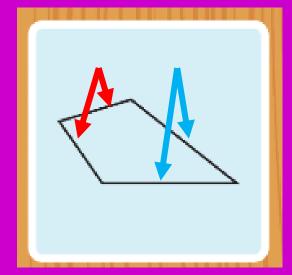
Can you find shapes that have two sides that are the same length?

## Try another one...

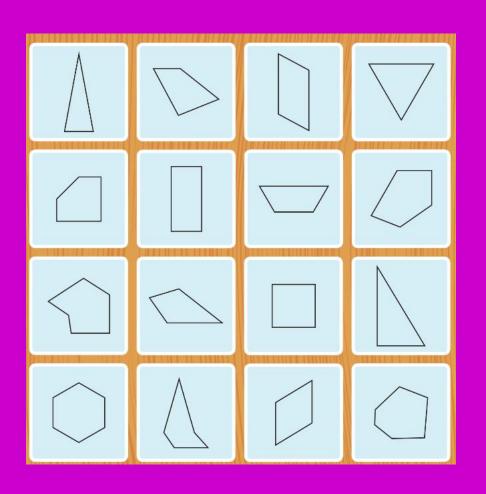


### There are a lot of them!

Some even have two pair that are the same. The kite for example has the two top the same plus the two bottom are also the same.

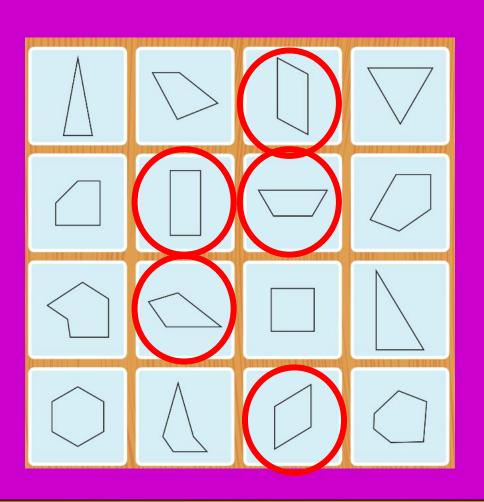


## Try this one!



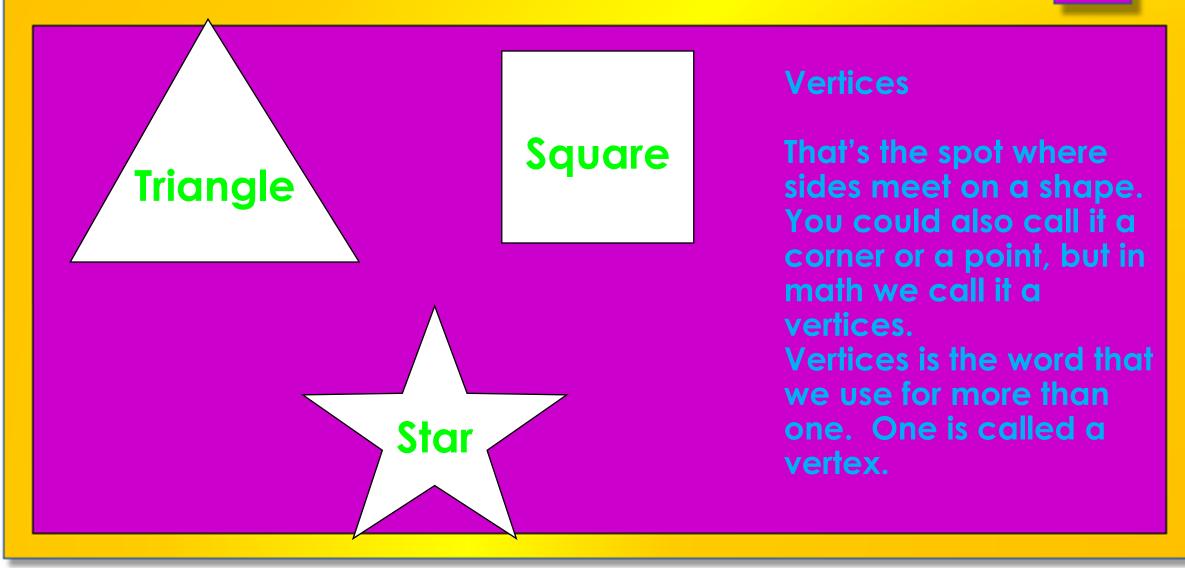
Can you find all the shapes that have two pair of same side lengths (like the kite)

## Try this one!



Can you find all the shapes that have two pair of same side lengths (like the kite)

## Let's look at another attribute

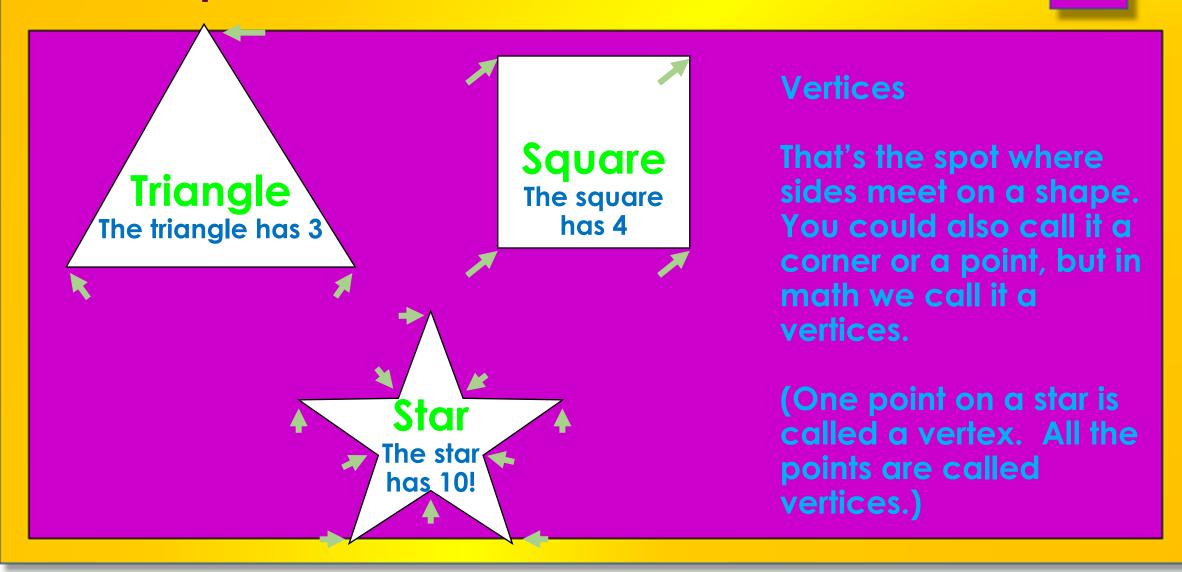


## Vertex Vertices

I love this word!
It might be my favorite math word!
One point on a shape is a vertex
Click below to hear it:
https://www.youtube.com/watch?v=2HnvWbCMnF4

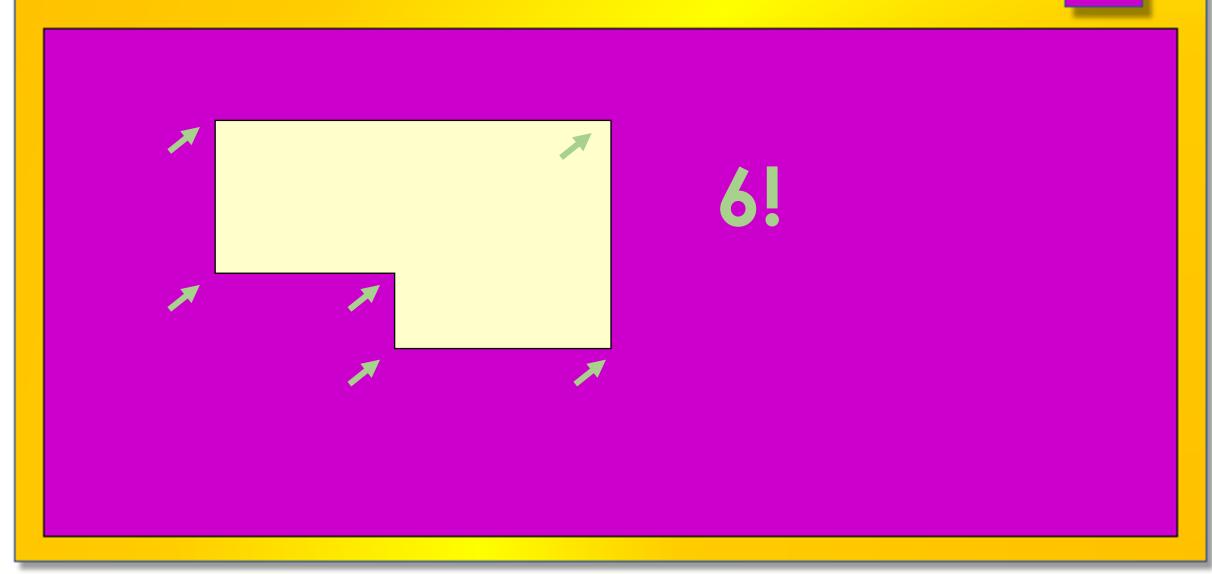
More than one point on a shape is a vertices Click these videos to learn how to say it: https://www.youtube.com/watch?reload=9&v=sJaYtraUu0E

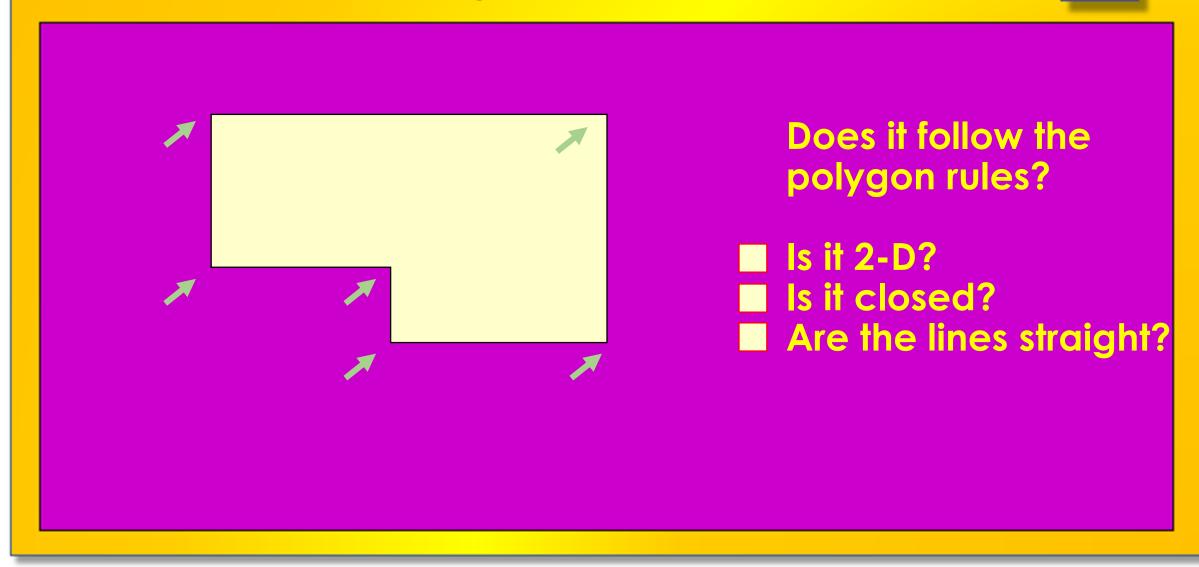
## Each shape has different numbers of vertices.

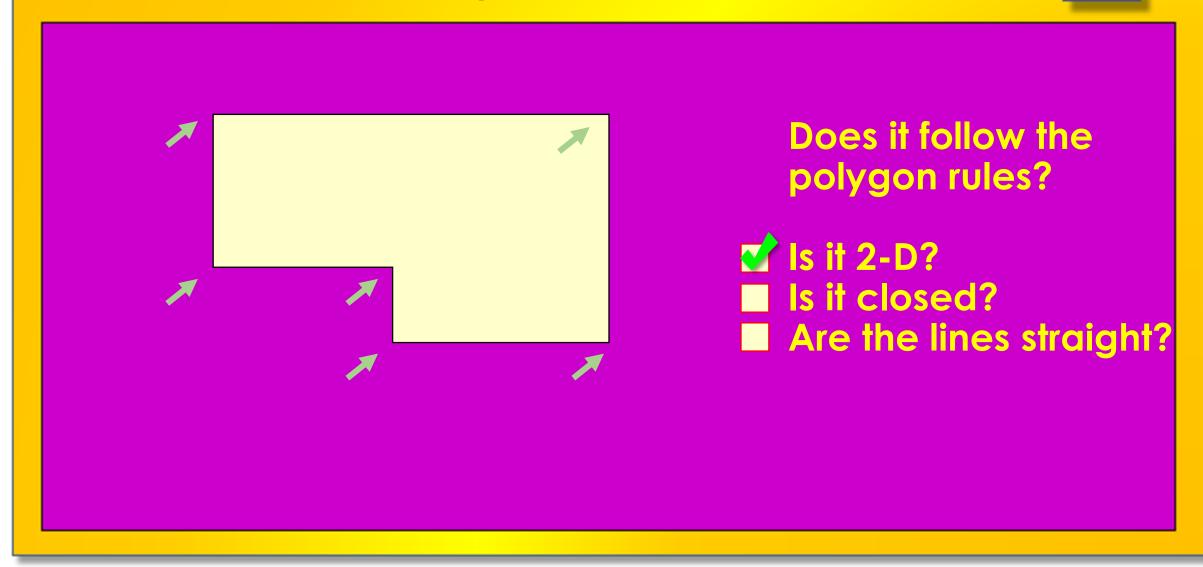


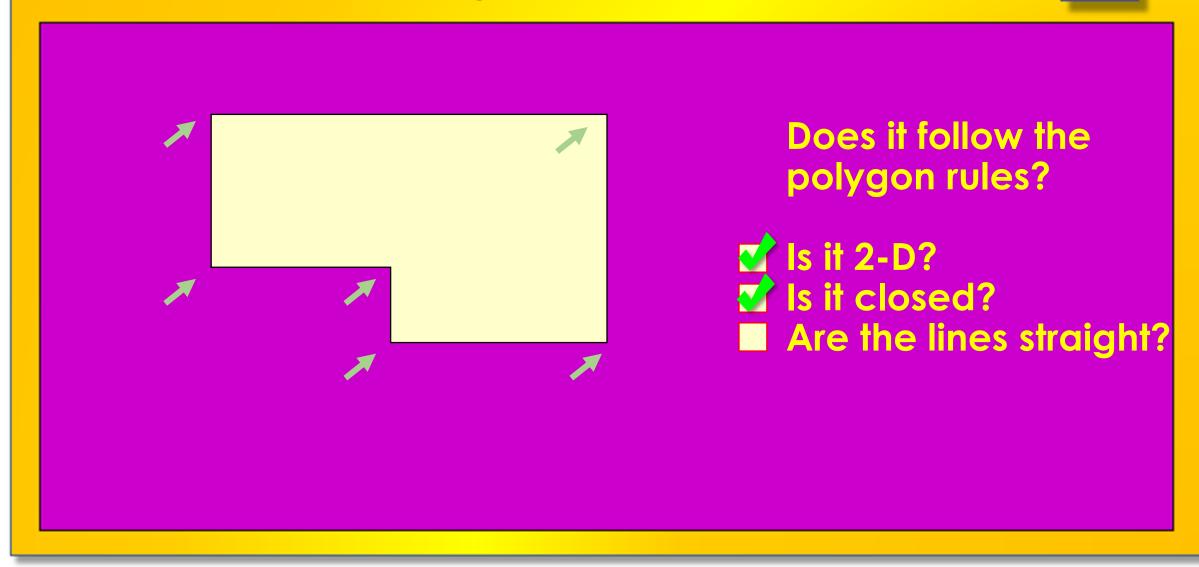
# How many vertices does this shape have?

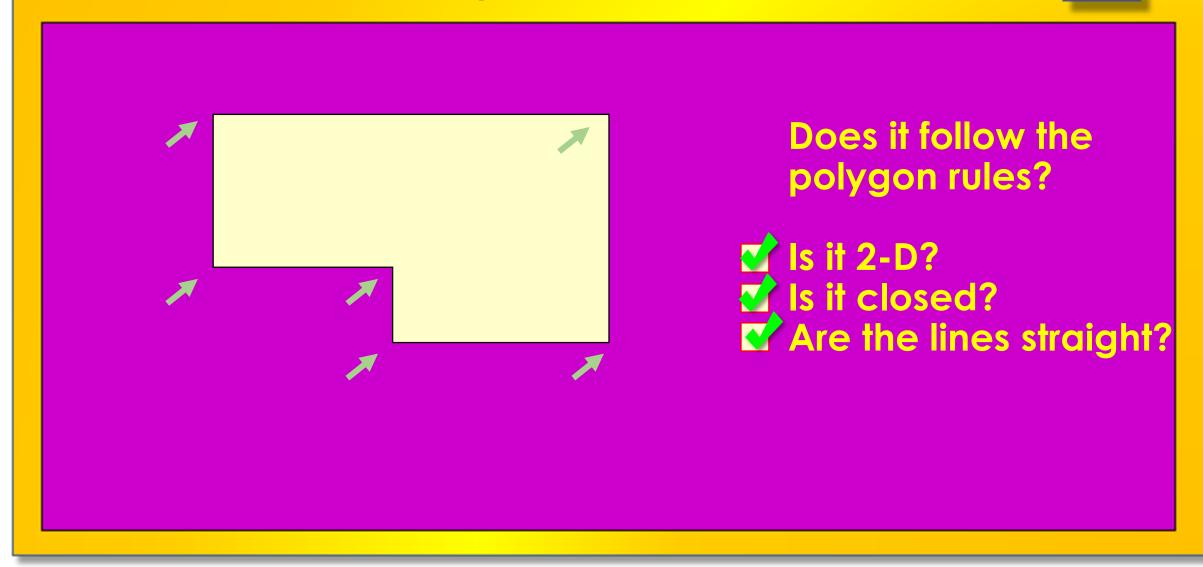
## How many vertices does this shape have?



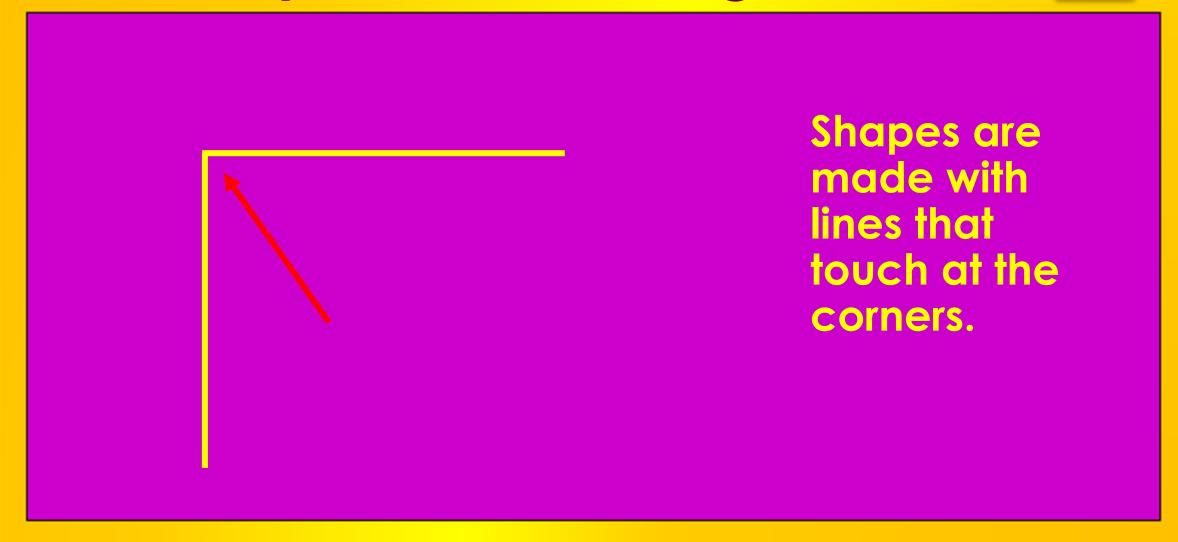




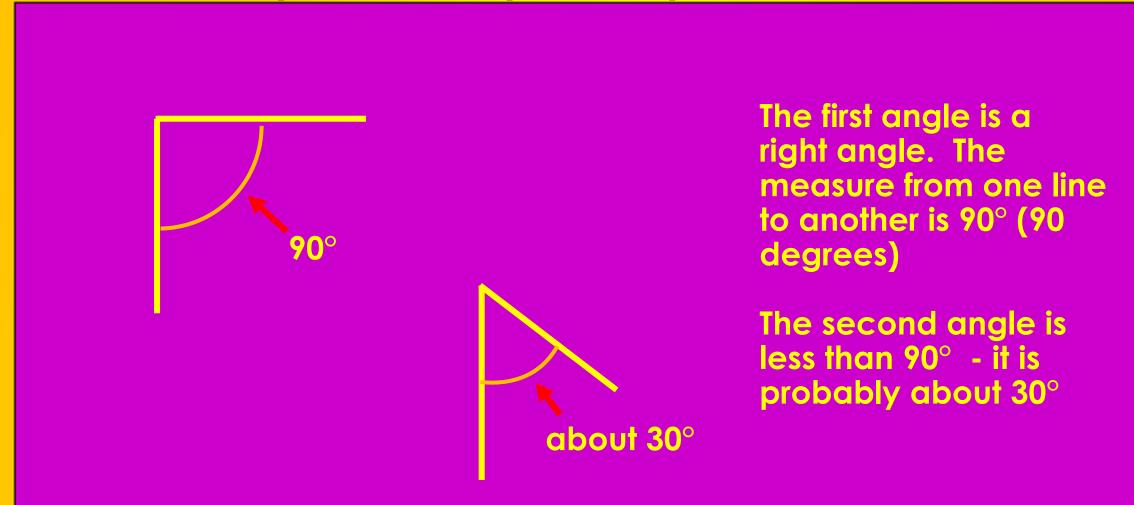




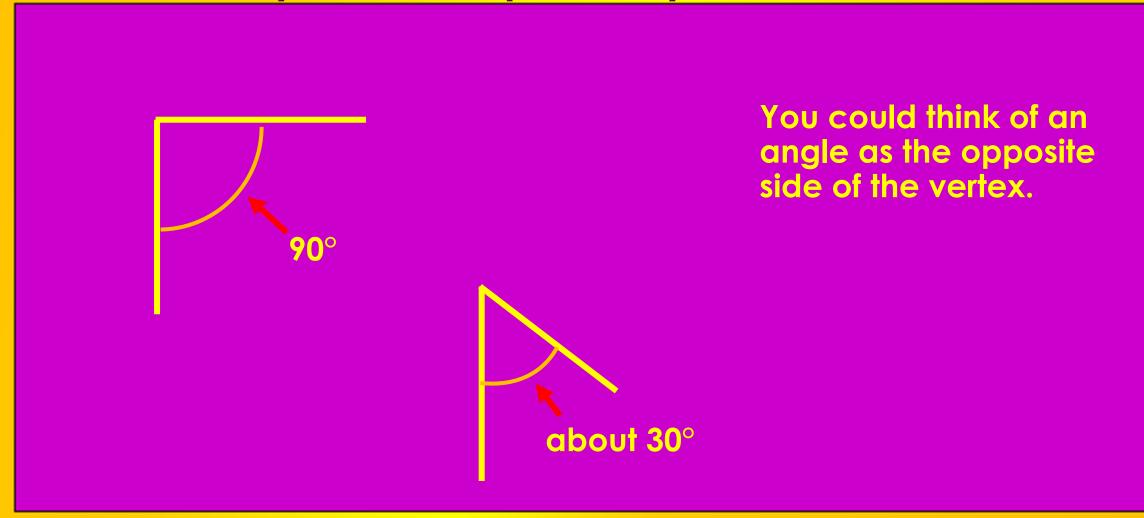
## And finally, what is an angle?



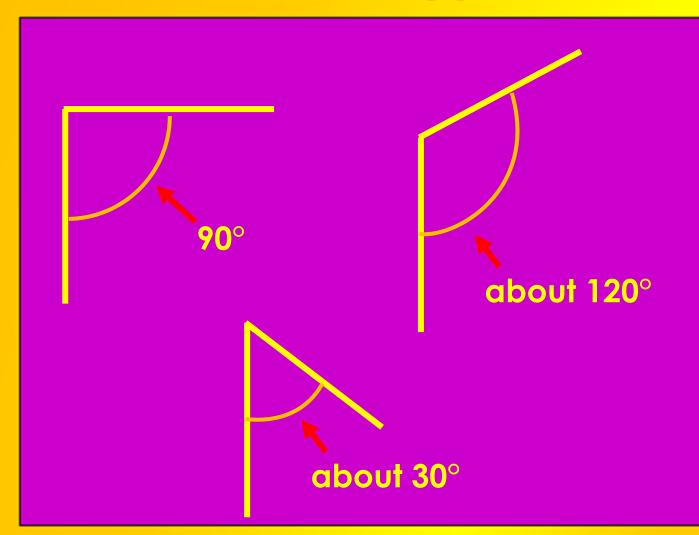
# The angle made by those two lines is measured by how far apart they are



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## There are three types of angles.

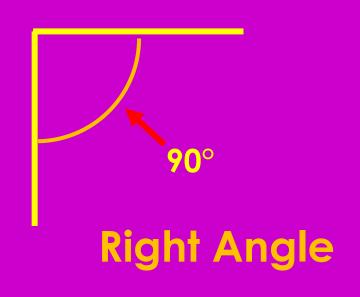


Right – a square angle is 90°. It is the same as the corner of a paper or the corners on a square.

Obtuse – an obtuse angle is bigger than a square angle.

Acute – an acute angle is smaller than a square angle. (I think of it as a cute little angle!

## We will review angles later!



Right now the most important angle is a right angle.

A right angle is 90°

# Let's Play Shape Capture!

Click on these words

https://connected.mcgraw-

hill.com/em4t/emgames.game.do?gameId=X3S9JRLBFMO5J3ZF65DPZ51CMM&familyId=1J9KPPZFS5PB8HP375W1H51 Y78&gameType=single-player&categoryId=JC8PY2PS1XEHKKB1K49LWQR9CE&grade=3

# email me to tell me how you did on Shape Capture!

Icronin@wtps.org