

# Shape and Space, Reasoning about Shapes

*Year 2 Autumn Term Week 6*

*Lesson 3*

# Today we will be learning to:

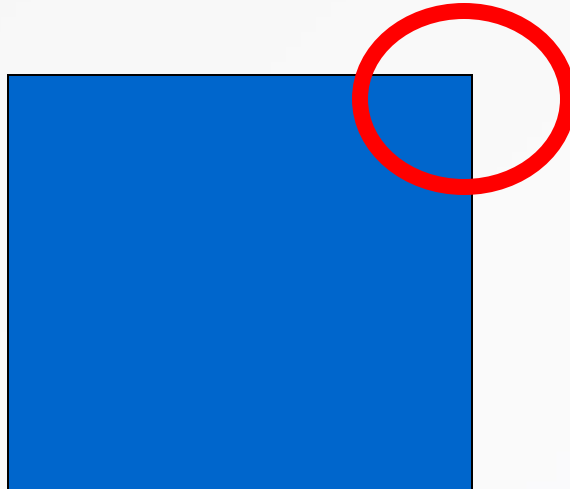
- combine squares to make new shapes
- understand what makes each shape special
- investigate using squares.

# Mental Activity

Quick questions.

What do you remember about shapes?

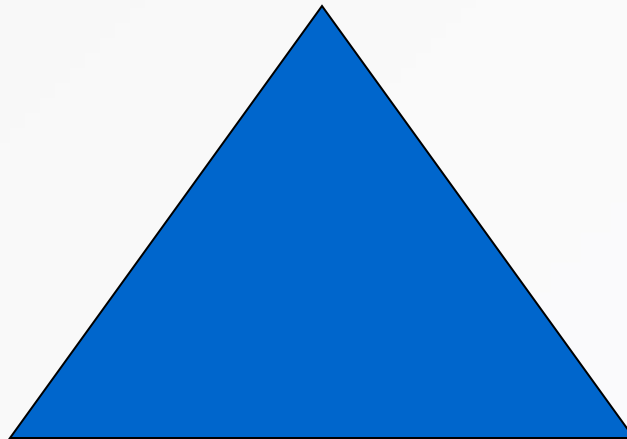
What is a corner?



Quick questions.

What do you remember about shapes?

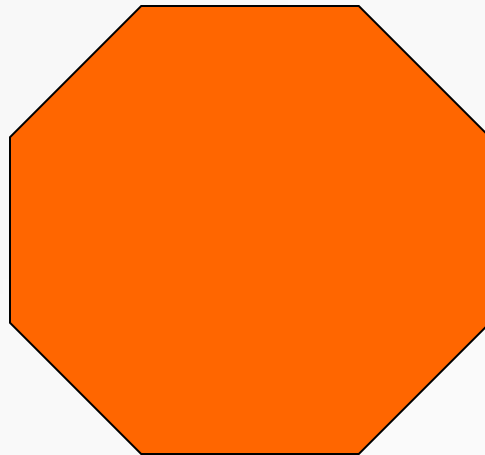
How many sides has a triangle?



## Quick questions.

What do you remember about shapes?

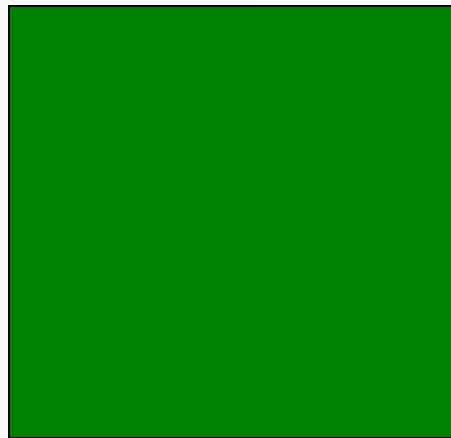
How many sides has a octagon?



## Quick questions.

What do you remember about shapes?

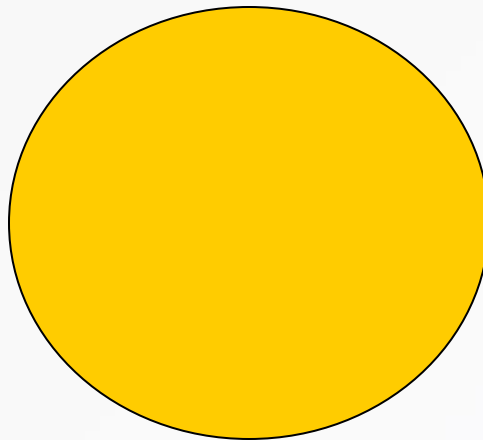
How many vertices has a square?



## Quick questions.

What do you remember about shapes?

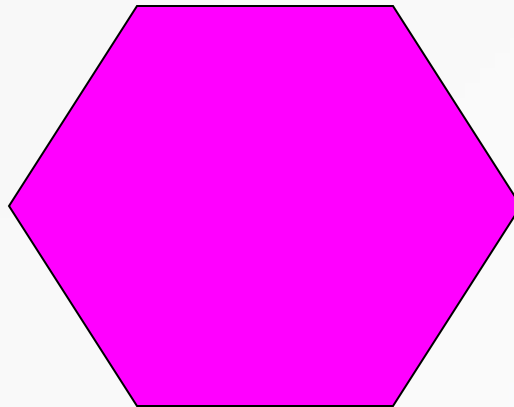
How many vertices has a circle?



## Quick questions.

What do you remember about shapes?

How many sides has a hexagon?





## Quick questions.

What do you remember about shapes?

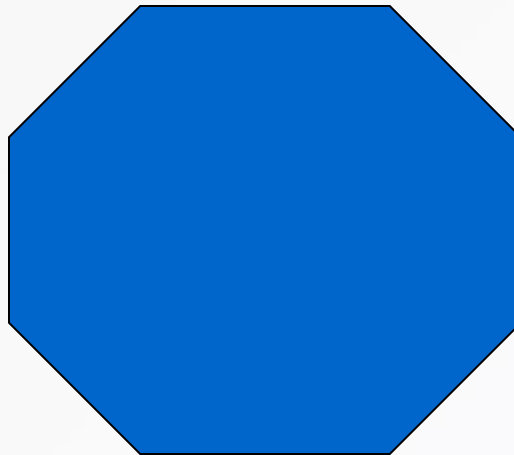
What is special about the square?



## Quick questions.

What do you remember about shapes?

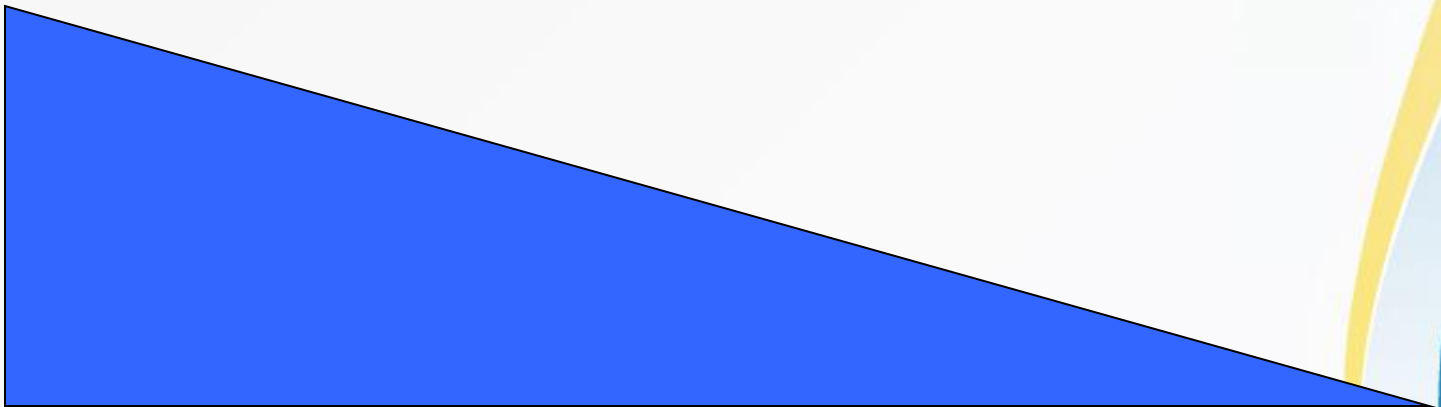
How many vertices has an octagon?



## Quick questions.


What do you remember about shapes?

How many vertices has a triangle?



# Main Activity

Today we are going to investigate different shapes that you can make.

- Sit next to someone from a different maths group.
  - Make sure you are holding a square piece of card.
- 

Fold your card in half.

What shape are you holding now?

A rectangle.

Fold your card in half again along  
the long side.

What shape are you holding now?

A square.

When you open up the card, how many shapes will you see?

4

What will the shapes be?

squares



Cut carefully along the folds.

Rearrange the squares.

What new shapes can you make?

Tell the person next to you how many vertices your new shape has got.

How many sides does it have?

## Group Work

- Work with people not in your normal maths group.
- Investigate and record the different shapes you can make with the four small squares.
- Squares must touch side to side.