

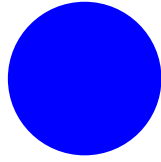
Math Program — Grade 2

Section 3: *Measurement and Geometry*

Student Exercise: Here are Plane Shapes



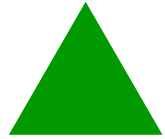
Square



Circle



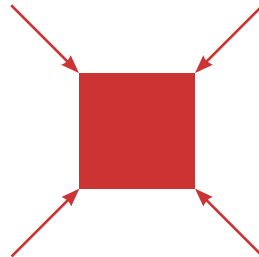
Rectangle



Triangle

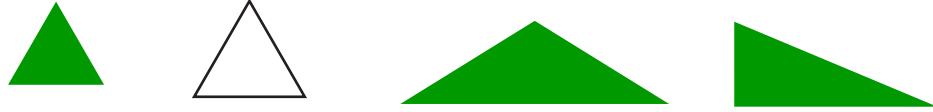
They keep their name even if they are turned around.

A square has four corners.

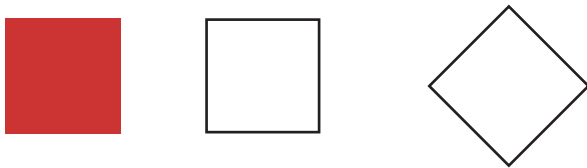


Section 3: Measurement and Geometry

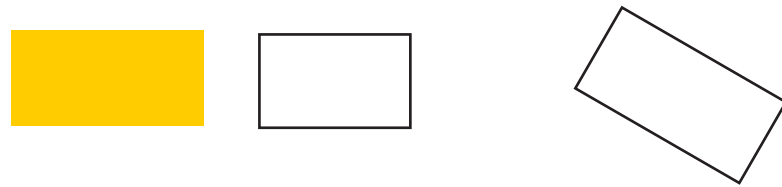
These are all **triangles**.
Triangles have 3 sides and straight edges.



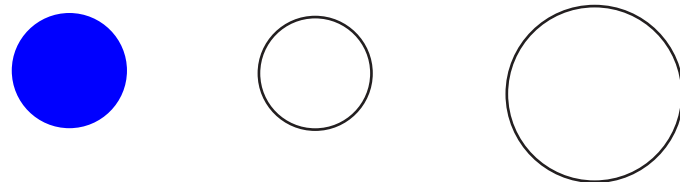
These are all **squares**.
Squares have 4 equal sides and straight edges.



These are all **rectangles**.
Rectangles have 4 sides and straight edges.

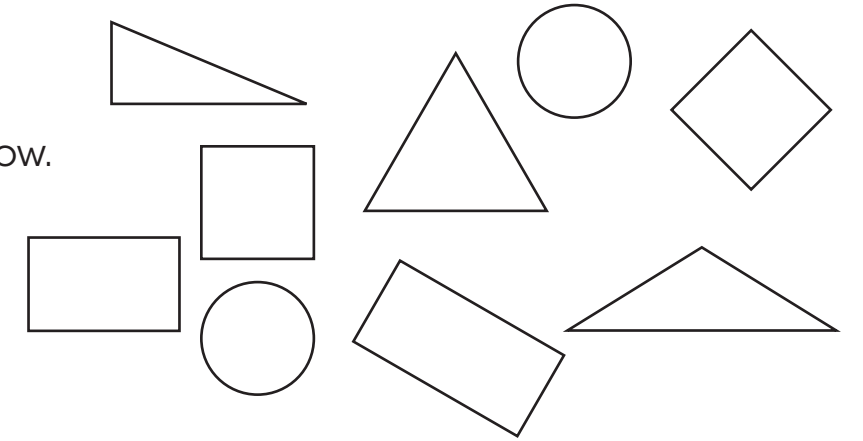


Circles can be all sizes.
They have curved edges.

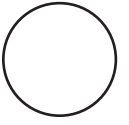

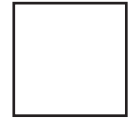
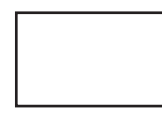


Section 3: Measurement and Geometry

Here are some shapes.
Color all the triangles red.
Color all the squares blue.
Color all the rectangles yellow.
Colour all the circles green.



Fill in the boxes

				
Name of the shape	circle			
How many sides?			4	
Has curved edges?				
How many straight edges?		3		

Circle your answer.



Which shape has 3 sides?

A B C D

Which shapes have straight edges?

A B C D

Which shape has curved edges?

A B C D

Which shapes have 4 sides?

A B C D

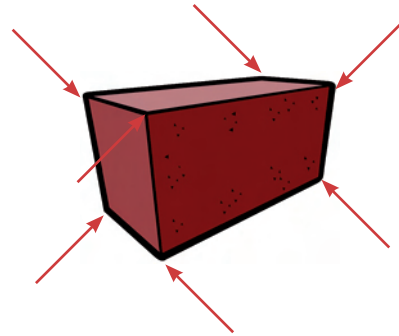
Section 3: Measurement and Geometry

**Student Exercise:
Here are Solid Shapes**

A **vertex** is another word for a **corner**
2 **corners** are 2 **vertices**

This rectangular prism
has 8 **corners** or **vertices**

We can only see 7 vertices.
Where do you think the 8th vertex is?
Draw it on the picture.



A sphere has one face and no vertices (corners)



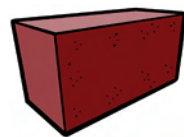
This pyramid has 5 faces and 5 vertices.
This pyramid has a square base.



A cube has 6 faces and 8 vertices.




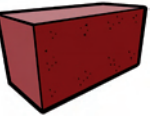


A rectangular prism has 6 faces and 8 vertices.

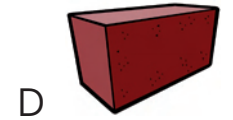


Section 3: Measurement and Geometry

Fill in the boxes

				
Name of the shape				
How many faces?				
How many vertices?				

Circle your answer.



Which shape has 5 faces?

A B C D

Which shapes have 5 vertices?

A B C D

Which shapes have 8 vertices?






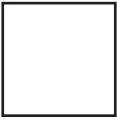
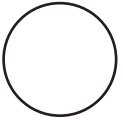
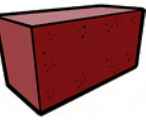
A B C D

Which shapes have 0 vertices?

A B C D

**Student Exercise:
Solid and Plane Shapes**

Put a cross in the box to show which shape is a solid and which is a plane.

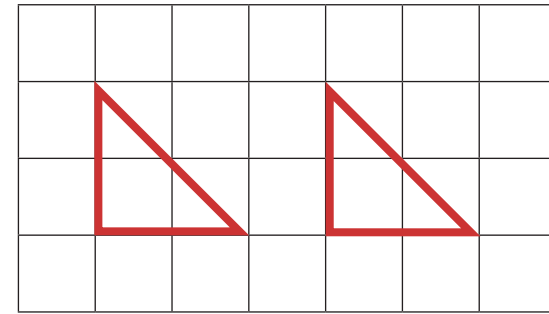
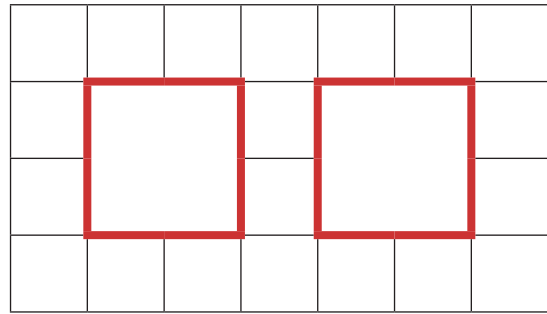
								
Solid	X							
Plane		X						

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Section 3: Measurement and Geometry

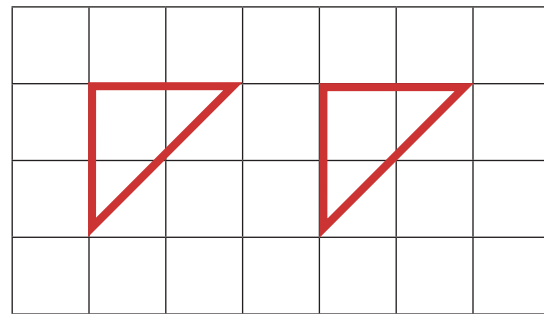
Student Exercise: Congruent Figures

Congruent figures are the same shape and the same size.



These squares are congruent because they are the same size and the same shape.

These triangles are congruent because they are the same size and the same shape.



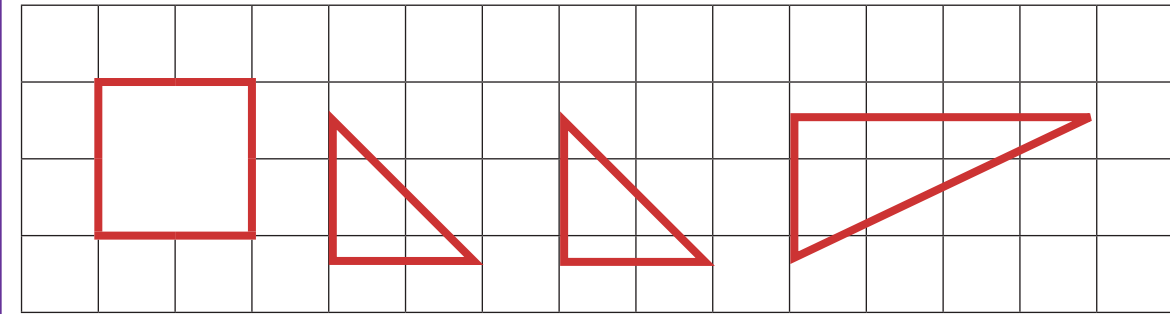
Are these triangles congruent?

Yes No

Are they the same size and the same shape?

Yes No

Section 3: Measurement and Geometry



Circle the 2 congruent shapes

Student Exercise: Activity 1

Which of these diagrams are congruent. Answer Yes or No

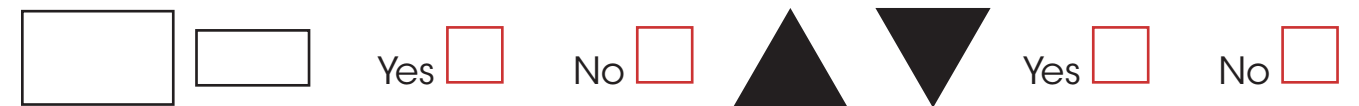


Yes

No

Yes

No



Yes

No

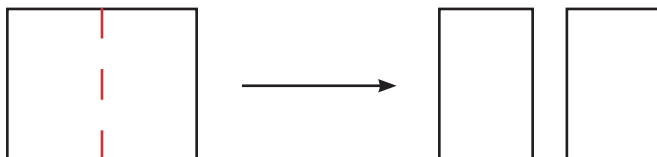
Yes

No

Section 3: *Measurement and Geometry***Student Exercise:**
Activity 2

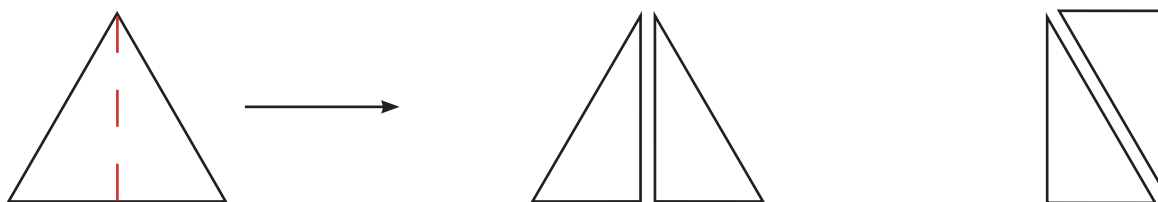
Draw these shapes on paper. Then cut them out.
Fold the shape in half. Cut it along the fold.

Mix up the shapes and rearrange them to make new congruent shapes.



The shape has been cut along a line of SYMMETRY.
The line of symmetry divides a shape into 2 congruent shapes.

They can be rearranged to form a shape like this.

**Student Exercise:**
Activity 3

This is a line of SYMMETRY.

A line of symmetry divides a shape into 2 congruent parts.