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## 50 Recognizing and Drawing Shapes

Introduction

Shapes are often described by the number of sides and angles. A side is a straight line. An angle is the place where two straight sides meet. It looks like a corner.

Plane figures are flat shapes.
Triangles have 3 sides and 3 angles.


A solid figure is not flat. A cube is a solid figure.
A cube has 6 faces that are all squares. A face is a flat section. it has 8 vertices, which are angles formed when corners meet. It also has 12 edges, which are angles formed when two sides meet on a three-dimensional figure.


## Think About It

Draw two shapes you see in your classroom. What are their names?

## Focused Instruction

## Count the number of sides and angles to name a shape.

Cora drew this shape. It shows the front of her math book. What words describe the shape?


How many sides does the shape have? $\qquad$

How many angles does it have? $\qquad$
Choose the word that describes the shape with this number of sides and angles.
triangle quadrilateral pentagon hexagon
Are the corners of this figure square or not square?

What is true about the opposite sides of the figure?


Look at your answers to the last two questions. What is another name that describes Cora's shape?

## Use a description to draw a shape.

Draw a plane figure that has 6 sides and 6 angles.
What is a plane figure?

Draw your plane figure in the space below.


What is the plane figure you drew called?
What is true about the number of sides and the number of angles in a plane figure?

Can you draw a plane figure with 3 sides and 4 corners? With 6 sides and 3 corners?

## Use what you know about/recognizing and drawing shapes to

 answer these questions.1 Draw a plane figure that has 4 sides and 4 angles.


2 A plane figure has 5 sides/and 5 angles. What is the name of the plane figure?

$\qquad$

## Solve the following problems.

1 What is a name for this plane figure?


2 Draw a plane figure that has 5 angles.
Answer



Part A What is the name of this figure?
Answer


How many sides does one face have?

## Solve the following problems.

1 Which of these plane figures are quadrilaterals? Mark the correct column for each plane figure.

(Suadrilateral | Not a |
| :---: |
| Quadrilateral |

2 How many square faces does a cube have?

3 Draw a shape that has 3 sides.


4 Circle the shapes that have less than 5 sides.


5 Kasey drew this picture. It is made up of plane figures.


Part B Color the plane figure with 5 sides green.
Part C Color the plane figures with 6 sides orange.


