

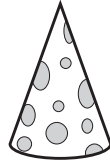
Name _____

Three-Dimensional Shapes

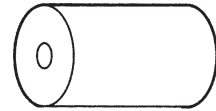
Three-dimensional objects come in different shapes.



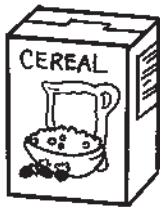
sphere



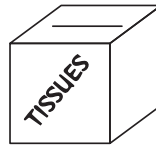
cone



cylinder



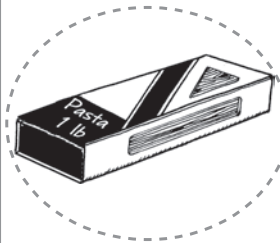
rectangular prism



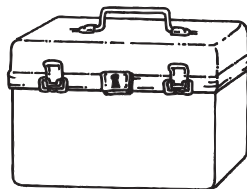
cube

Circle the objects that match the shape name.

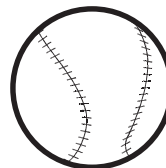
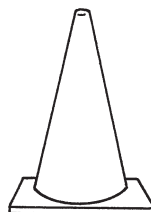
1. rectangular prism



2. cylinder



3. cone

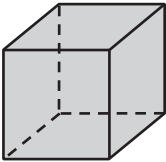

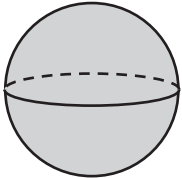
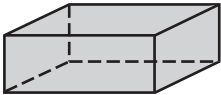
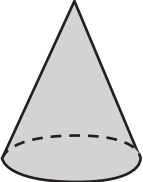


Name _____

Will It Stack?

Use these words to name the shapes. Circle *yes* or *no*.

| | | |
|--------|-------------------|----------|
| sphere | rectangular prism | cylinder |
| cube | cone | |

| Shape | Name of shape | 2 or more flat surfaces? |
|--|---------------|--------------------------|
| 1.  | _____ | yes no |
| 2.  | _____ | yes no |
| 3.  | _____ | yes no |
| 4.  | _____ | yes no |
| 5.  | _____ | yes no |



Writing and Reasoning Describe when a shape can stack.

Name _____

Attributes of Three-Dimensional Shapes

Two sides meet at an edge.
A vertex is a corner.

A face is a flat side.

6 faces,
12 edges,
8 vertices

Write how many for each.

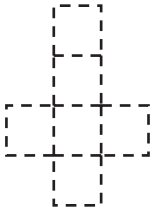
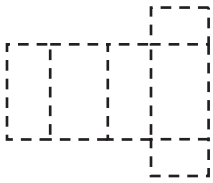
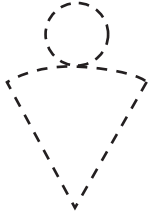
| | faces | edges | vertices |
|---|-------|-------|----------|
| <p>1.</p> <div style="text-align: center;"> <p>cube</p> </div> | _____ | _____ | _____ |
| <p>2.</p> <div style="text-align: center;"> <p>rectangular prism</p> </div> | _____ | _____ | _____ |

Name _____

Match Shapes and Faces

Patterns for three-dimensional shapes are called nets. If you fold a net, it makes a three-dimensional shape.

Look at the net. Circle the name of the shape it makes.

| | |
|---|--|
| <p>1.</p>  | <p>cube cylinder cone</p> |
| <p>2.</p>  | <p>cube rectangular prism cylinder</p> |
| <p>3.</p>  | <p>cube cone rectangular prism</p> |

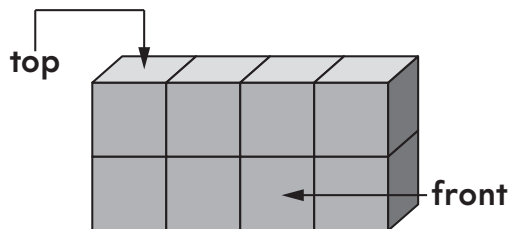


Writing and Reasoning In Exercise 1, how did you know which shape the faces on the net made?

Name _____

Build Three-Dimensional Shapes

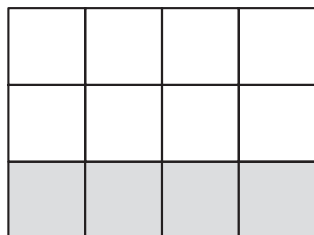
Jada used 8 unit cubes to build this rectangular prism.



This is what the **top** looks like.



Shade the grid to match.

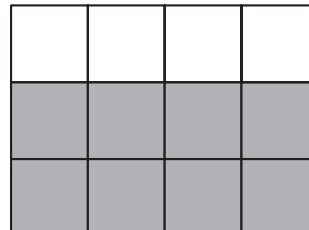


top view

This is what the **front** looks like.



Shade the grid to match.



front view

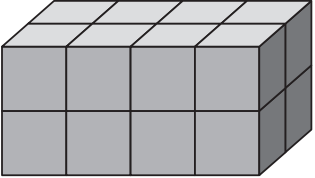
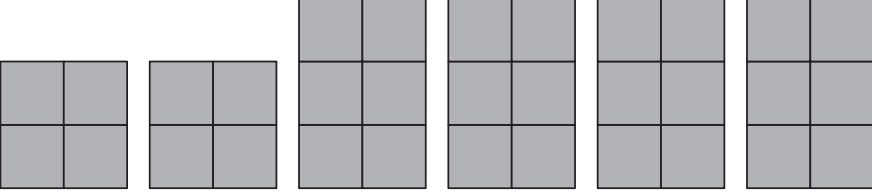
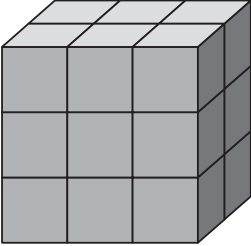
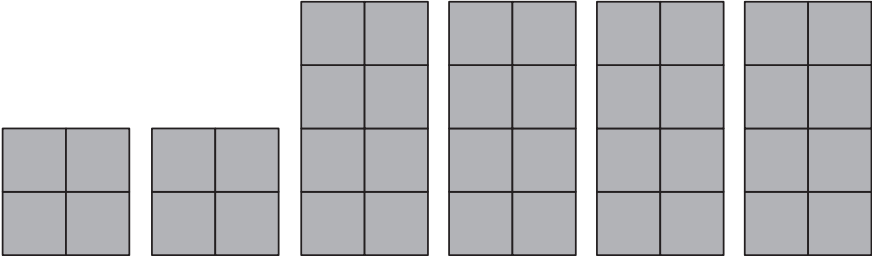
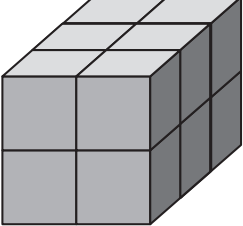
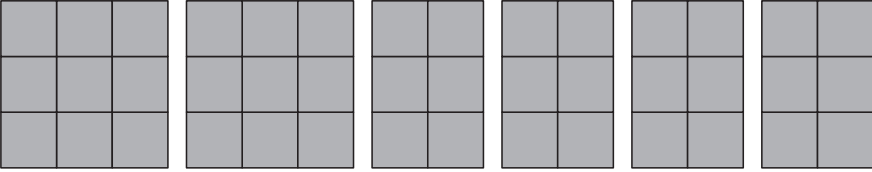
Build a rectangular prism with the given number of unit cubes. Shade to show the top and front views.

| | top view | front view |
|------------------|----------|------------|
| 1. 10 unit cubes | | |

Name _____

Face Front

Draw a line from each rectangular prism to its matching group of face shapes.

| Rectangular Prism | Face Shapes |
|---|--|
| <p>1.</p>  |  |
| <p>2.</p>  |  |
| <p>3.</p>  |  |



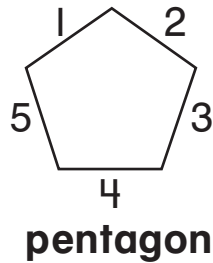
Writing and Reasoning Jeb wants to wrap a gift. The box is a cube shape. What are the shapes of the faces of the box? How many faces does he need to wrap? Explain.

Name _____

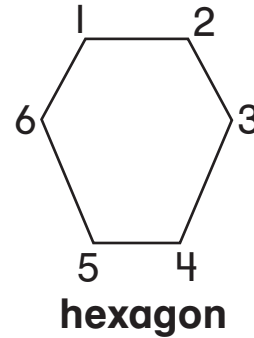
Two-Dimensional Shapes

Count sides and vertices.

A pentagon has 5 sides.

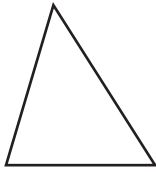


A hexagon has 6 vertices.



Write the number of sides and the number of vertices.

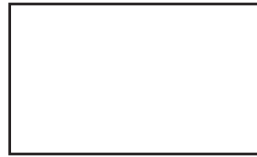
1. triangle



___ sides

___ vertices

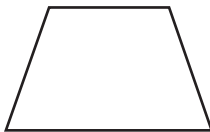
2. rectangle



___ sides

___ vertices

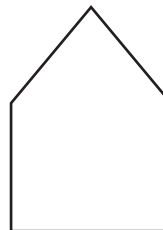
3. quadrilateral



___ sides

___ vertices

4. pentagon



___ sides

___ vertices

Name _____

Picture Shapes

Use the directions to draw a picture.

1. Use the rectangle below to make a house.
Draw a triangle above it for a roof.
2. Draw two hexagons for windows.
Draw a quadrilateral for a door.
3. Draw a pentagon for a doghouse next to the house.
Draw a quadrilateral for the opening to the doghouse.



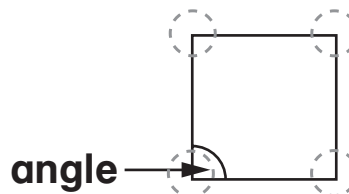
Writing and Reasoning How did you know how to draw a quadrilateral?

Name _____

Angles in Two-Dimensional Shapes

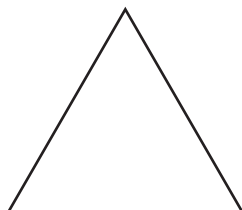
Two sides meet and form an angle.

There are 4 angles in a square.



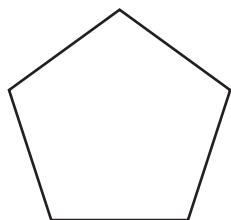
**Circle the angles in each shape.
Write how many.**

1.



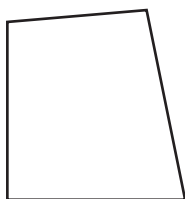
_____ angles

2.



_____ angles

3.



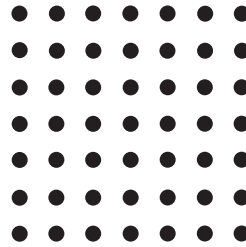
_____ angles

Name _____

Sides and Angles

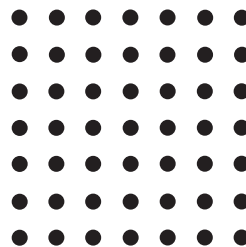
1. Draw a pentagon.
Write how many angles.

_____ angles



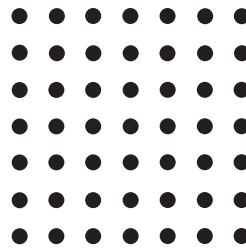
2. Draw a triangle.
Write how many sides.

_____ sides



3. Draw a quadrilateral.
Write how many angles.

_____ angles



Writing and Reasoning Look at the shapes you drew. What do you notice about the number of sides and angles for each?

Name _____

Sort Two-Dimensional Shapes

Circle the shapes with 5 sides.



4 sides



3 sides

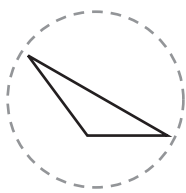


5 sides



6 sides

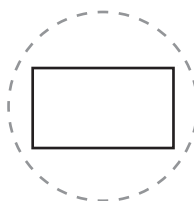
Circle the shapes with fewer than 5 angles.



3 angles



6 angles



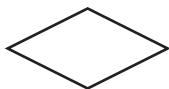
4 angles



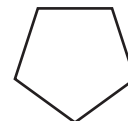
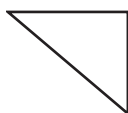
5 angles

Circle the shapes that match the rule.

1. Shapes with 4 sides



2. Shapes with more than 4 angles

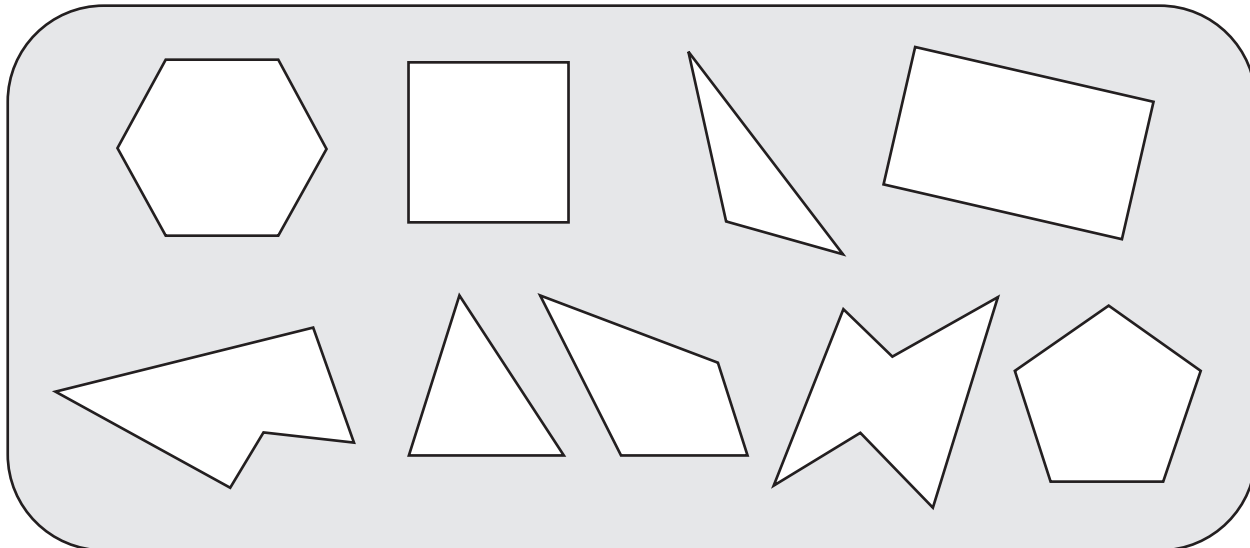


Name _____

Sort and Color

Find and color the shapes.

1. Find the quadrilaterals. Color them red.
2. Find the shapes with more than 5 sides. Color them yellow.
3. Find the shapes with fewer than 4 angles. Color them blue.
4. Find the pentagons. Color them orange.



Writing and Reasoning Name the shapes you colored that were not quadrilaterals and were not pentagons. How could you describe these shapes?

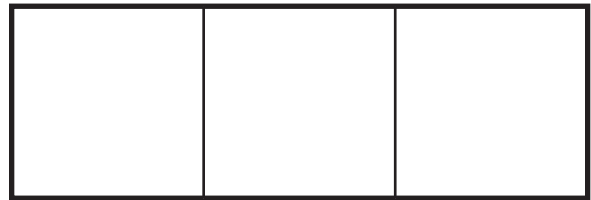
Name _____

Partition Rectangles

How many square tiles cover this rectangle?

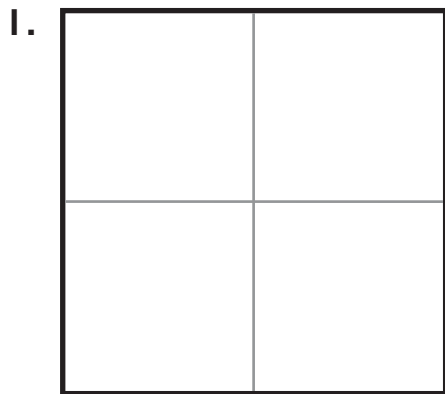


Make a row of color tiles on the rectangle.
Trace around the square tiles.

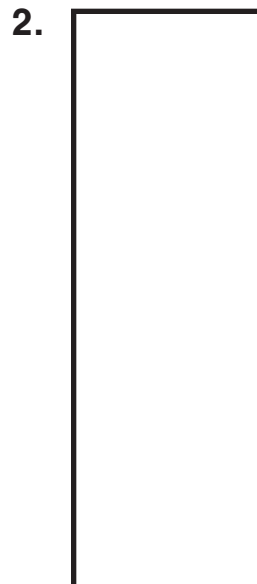


3 square tiles

**Use color tiles to cover the rectangle.
Trace around the square tiles. Write how many.**



Number of rows: _____
 Number of columns: _____
 Total: _____ square tiles



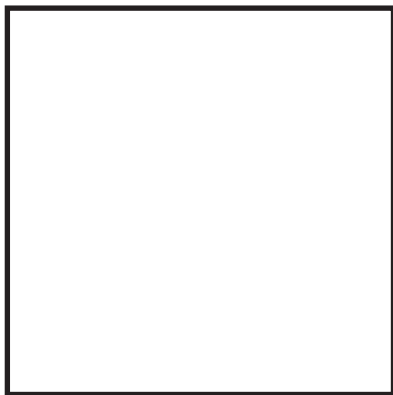
Number of rows: _____
 Number of columns: _____
 Total: _____ square tiles

Name _____

Guess and Check

Guess how many square tiles you would need to cover the rectangle. Write your guess. Then cover the rectangle with color tiles and write the number.

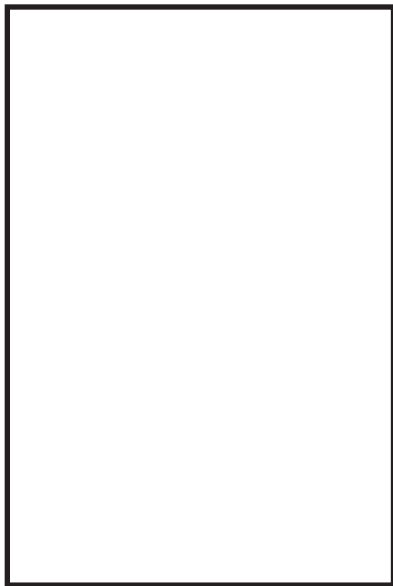
1.



My guess: _____ square tiles

Number needed: _____ square tiles

2.



My guess: _____ square tiles

Number needed: _____ square tiles



Writing and Reasoning How did you decide how many square tiles to guess for the second rectangle?

Name _____

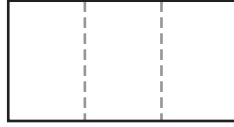
Equal Parts

You can divide a whole into equal parts.



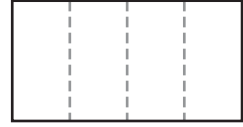
2 equal parts

halves



3 equal parts

thirds



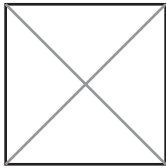
4 equal parts

fourths

Write how many equal parts there are in the whole.

Write halves, thirds, or fourths to name the equal parts.

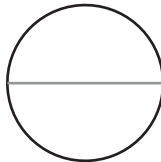
1.



4 equal parts

fourths

2.



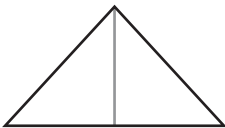
_____ equal parts

3.



_____ equal parts

4.



_____ equal parts

5.



_____ equal parts

6.

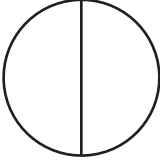
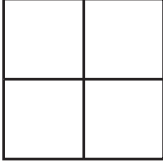
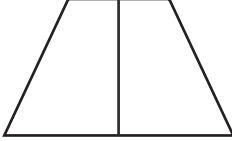

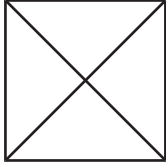

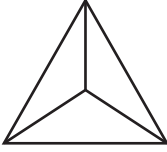
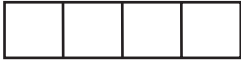
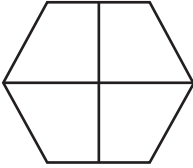
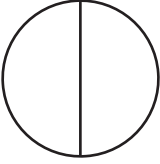

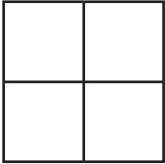


_____ equal parts

Name _____

Shapes and Parts

Circle the shapes in each row that show the correct number of equal parts for each whole.

| | | | | |
|---------|---|---|--|---|
| halves |  |  |  |  |
| thirds |  |  |  |  |
| fourths |  |  |  |  |



Writing and Reasoning Describe how you decided which shapes to circle for fourths.

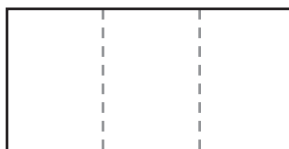
Name _____

Show Equal Parts of a Whole

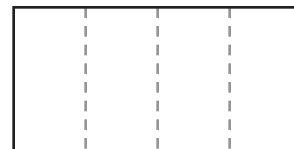
Trace to show the equal parts.



2 equal parts
2 halves



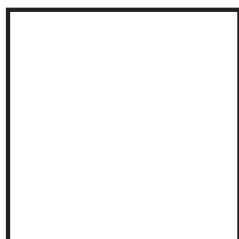
3 equal parts
3 thirds



4 equal parts
4 fourths

Draw to show equal parts.

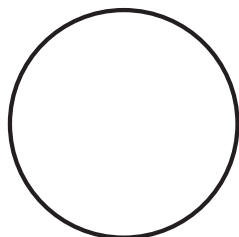
1. halves



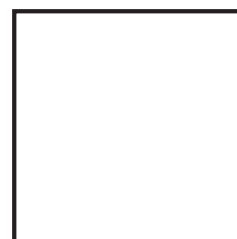
2. thirds



3. halves



4. fourths



Name _____

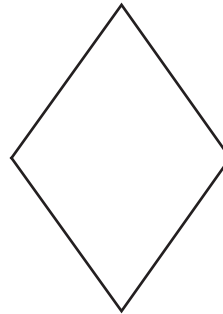
Picture Equal Parts

Draw lines on each picture to show equal parts.

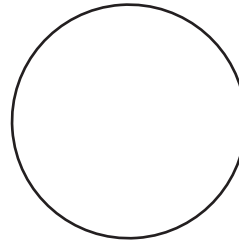
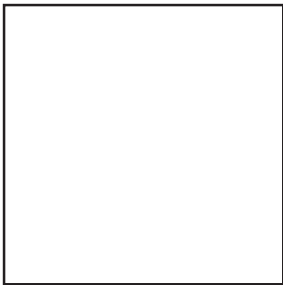
1. Show 2 equal parts.



2. Show 3 equal parts.



3. Show 4 equal parts.

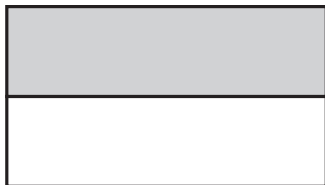


Writing and Reasoning In Exercise 1, how did you decide how to show two equal parts on the heart shape?

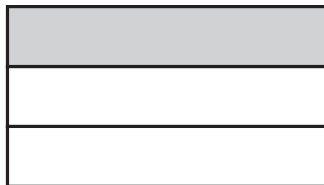
Name _____

Describe Equal Parts

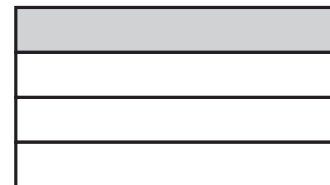
One equal part of each shape is shaded.



A half of the shape is shaded.



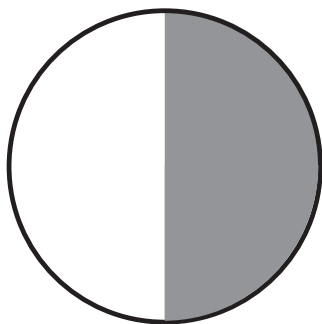
A third of the shape is shaded.



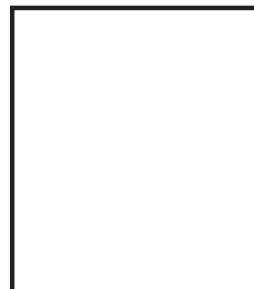
A fourth of the shape is shaded.

Draw to show halves.
Color a half of the shape.

1.



2.



Draw to show fourths.
Color a fourth of the shape.

3.



4.



Name _____

Garden Plots

A farmer has 2 gardens that are the same size.

A third of one garden is fruit.

A fourth of the other garden is flowers.

The rest of both gardens are vegetables.

Draw to show each garden divided into equal parts.



Color each part.

1. Use orange to show fruit.
2. Use blue to show flowers.
3. Use green to show vegetables.



Writing and Reasoning Did the farmer plant more fruit or flowers? Explain.

Name _____

Problem Solving • Equal Shares

Two gardens are the same size. Each garden is divided into halves, but the gardens are divided differently. How might the gardens be divided?

Unlock the Problem

What do I need to find?

how the gardens are

divided

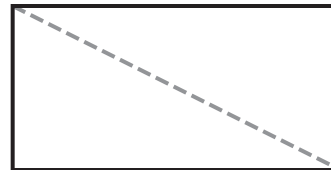
What information do I need to use?

There are 2 gardens.

Each garden is divided into

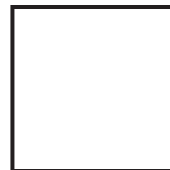
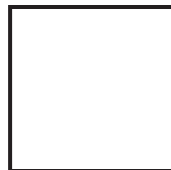
halves.

Show how to solve the problem.



Draw to show your answer.

- Sophie has two pieces of paper that are the same size. She wants to divide each piece into fourths. What are two different ways she can divide the pieces of paper?

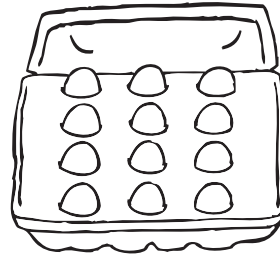
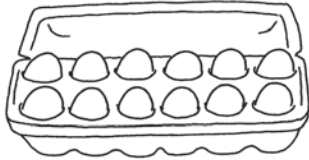


Name _____

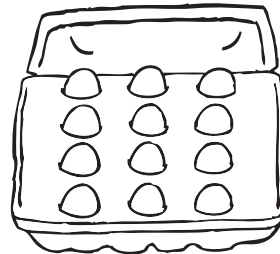
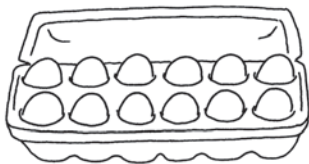
Egg-Carton Shares

Draw to make equal parts for the eggs in both kinds of cartons.

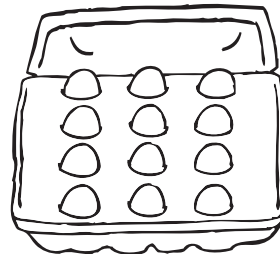
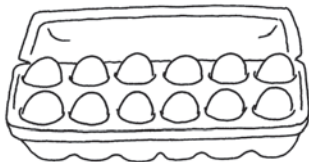
1. Draw to show halves.



2. Draw to show thirds.



3. Draw to show fourths.



Writing and Reasoning How many eggs are in a half of a carton no matter how you divide it? Explain.
