Chapter 11

School-Home Letter

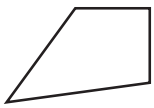
Dear Family:

My class started Chapter 11 this week. In this chapter, I will learn about three-dimensional and two-dimensional shapes. I will also learn about equal parts of a whole.

Love, _____

Vocabulary

quadrilateral



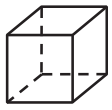
cone

pentagon

cylinder

hexagon

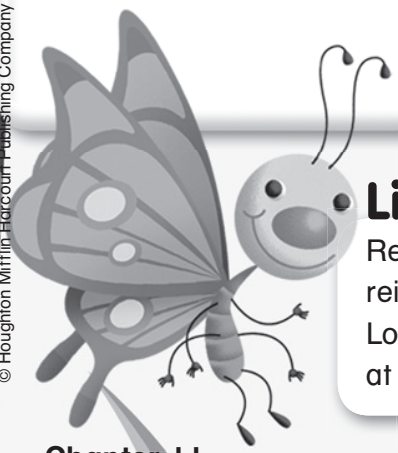
cube



Home Activity

Name a two-dimensional shape: triangle, quadrilateral, pentagon, or hexagon. With your child, look for an object that has that shape.

Repeat the activity using a three-dimensional shape: cube, rectangular prism, sphere, cylinder, or cone.



Literature

Reading math stories reinforces learning. Look for these books at the library.

Shape Up! by David Adler. Holiday House, 1998.

The Village of Round and Square Houses by Ann Grifalconi. Little, Brown and Company, 1986.

Capitulo 11

Carta para la casa

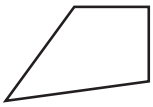
Querida familia:

Mi clase comenzó hoy el Capítulo 11. En este capítulo, aprenderé acerca de las guras bidimensionales y tridimensionales. También aprenderé sobre las partes igualdades de un entero.

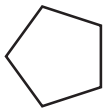
Con cariño, _____

Vocabulario

cuadrilátero



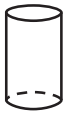
pentágono



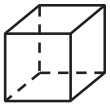
hexágono

cono

cilindro

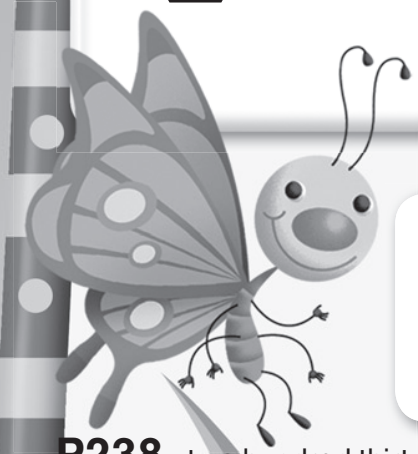


cubo



Actividad para la casa

Nombre alguna figura bidimensional, como triángulo, cuadrilátero, pentágono o hexágono. Juntos, busquen una figura que tenga la misma forma. Repitan la actividad con una figura tridimensional, como cubo, prisma rectangular, esfera, cilindro o cono.



Literatura

Leer cuentos de matemáticas refuerza el aprendizaje. Busquen estos libros en la biblioteca.

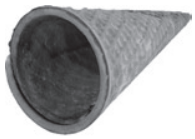
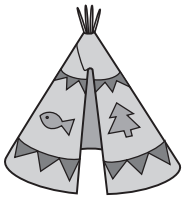
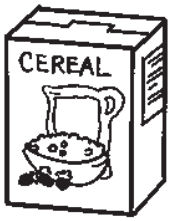
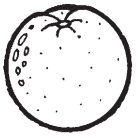
Shape Up!
por David Adler. Holiday House, 1998

The Village of Round and Square Houses
por Ann Grifalconi. Little, Brown and Company, 1986.

Name _____

Three-Dimensional Shapes

Circle the objects that match the shape name.

1. cube			
2. cone			
3. rectangular prism			
4. cylinder			

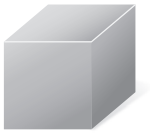
PROBLEM SOLVING REAL WORLD

5. Lisa draws a circle by tracing around the bottom of a block. Which could be the shape of Lisa's block? Circle the name of the shape.

cone cube rectangular prism

Lesson Check

1. What is the name of this shape?



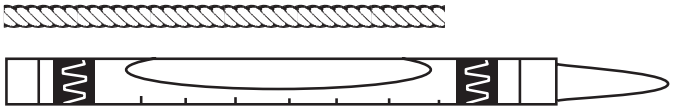
- ○ cube
- ○ cone
- ○ cylinder
- ○ sphere

2. What is the name of this shape?

- ○ rectangular prism
- ○ cube
- ○ sphere
- ○ cone

Spiral Review

3. The string is about 6 centimeters long. Which is the best estimate for the length of the crayon? (Lesson 9.2)

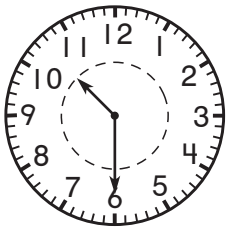


- ○ 3 centimeters
- ○ 4 centimeters
- ○ 9 centimeters
- ○ 12 centimeters

4. What is the total value of this group of coins? (Lesson 7.1)

- ○ 3¢
- ○ 11¢
- ○ 15¢
- ○ 16¢

5. What time is shown on this clock? (Lesson 7.8)

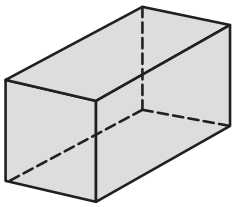


- ○ 6:00
- ○ 10:06
- ○ 10:30
- ○ 11:00

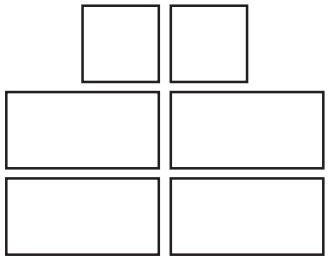
Name _____

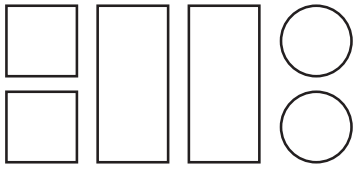
Attributes of Three-Dimensional Shapes

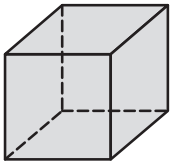
Circle the set of shapes that are the faces of the three-dimensional shape.

1. 

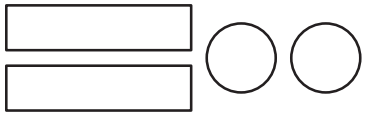
rectangular prism

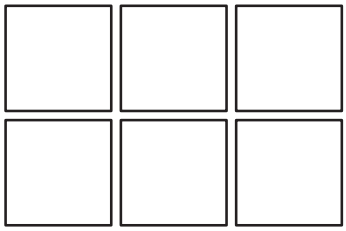


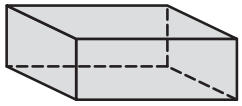


2. 

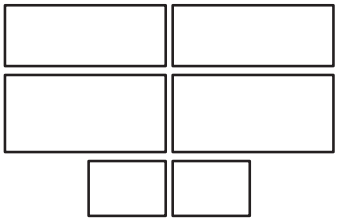
cube

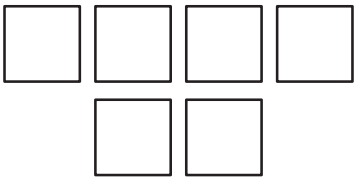




3. 

rectangular prism





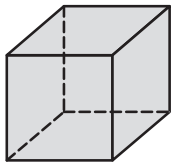
PROBLEM SOLVING REAL WORLD

4. Kevin keeps his marbles in a container that has the shape of a cube. He wants to paint each face a different color. How many different paint colors does he need?

_____ different paint colors

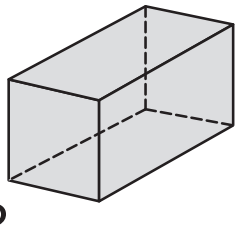
Lesson Check

1. How many faces does a cube have?



○ 8 ○ 6
○ 7 ○ 5

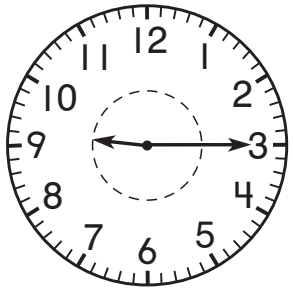
2. How many faces does a rectangular prism have?



○ 12 ○ 8
○ 10 ○ 6

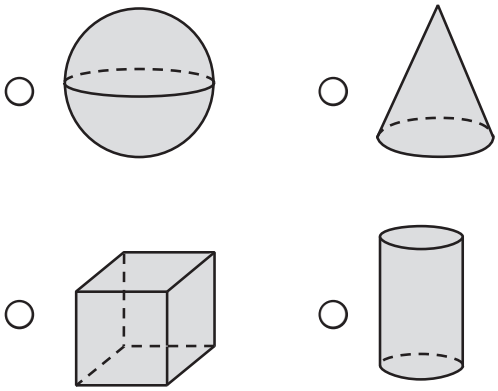
Spiral Review

3. What time is shown on this clock? (Lesson 7.9)



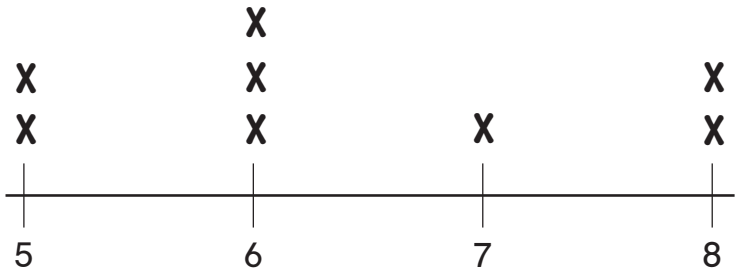
○ 9:45 ○ 9:03
○ 9:15 ○ 3:45

4. Which of these shapes is a cone? (Lesson 11.1)



5. Use the line plot. How many books are 8 inches long? (Lesson 8.9)

○ 1
○ 2
○ 6
○ 8



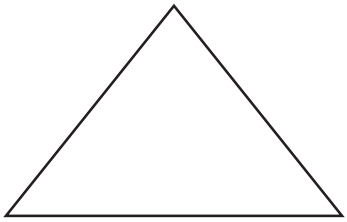
Lengths of Books in Inches

Name _____

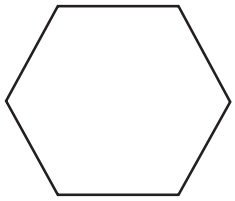
Two-Dimensional Shapes

Write the number of sides and the number of vertices. Then write the name of the shape.

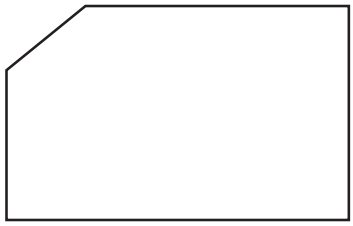
pentagon triangle
hexagon quadrilateral

1. 

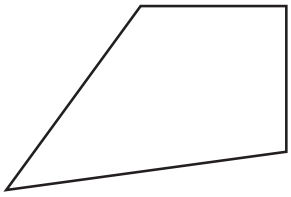
_____ sides
_____ vertices
_____

2. 

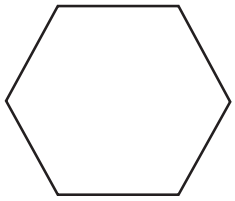
_____ sides
_____ vertices
_____

3. 

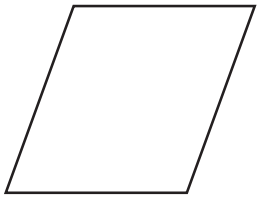
_____ sides
_____ vertices
_____

4. 

_____ sides
_____ vertices
_____

5. 

_____ sides
_____ vertices
_____

6. 

_____ sides
_____ vertices
_____

PROBLEM SOLVING REAL WORLD

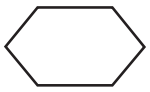
Solve. Draw or write to explain.

7. Oscar is drawing a picture of a house. He draws a pentagon shape for a window. How many sides does his window have?

_____ sides

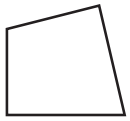
Lesson Check

1. How many sides does a hexagon have?



- ○ 3
- ○ 4
- ○ 5
- ○ 6

2. How many vertices does a quadrilateral have?



- ○ 6
- ○ 5
- ○ 4
- ○ 3

Spiral Review

3. Use a centimeter ruler. What is the length of the ribbon to the nearest centimeter? (Lesson 9.3)

- ○ 10 centimeters
- ○ 14 centimeters
- ○ 16 centimeters
- ○ 18 centimeters

4. Look at the picture graph. How many more children chose apples than chose oranges? (Lesson 10.3)

- ○ 1
- ○ 2
- ○ 4
- ○ 11

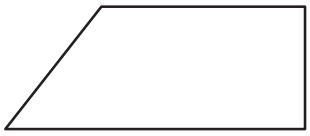
Favorite Fruit					
apples	☺	☺	☺	☺	
oranges	☺	☺			
grapes	☺	☺	☺		
peaches	☺	☺			

Key: Each ☺ stands for 1 child.

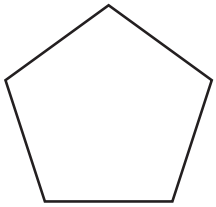
Name _____

Angles in Two-Dimensional Shapes

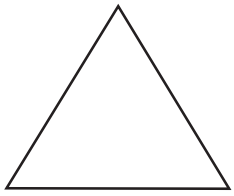
Circle the angles in each shape.
Write how many.

1. 

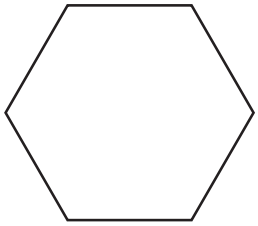
_____ angles

2. 

_____ angles

3. 

_____ angles

4. 

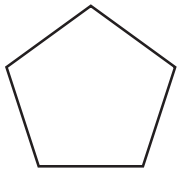
_____ angles

PROBLEM SOLVING REAL WORLD

5. Logan drew 2 two-dimensional shapes that had 8 angles in all. Draw shapes Logan could have drawn.

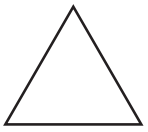
Lesson Check

1. How many angles does this shape have?



○ 3 ○ 5
○ 4 ○ 6

2. How many angles does this shape have?



○ 3 ○ 5
○ 4 ○ 6

Spiral Review

3. Use an inch ruler. What is the length of the string to the nearest inch? (Lesson 8.4)

○ 13 inches ○ 5 inches
○ 11 inches ○ 3 inches

4. Look at the picture graph. How many children chose daisies? (Lesson 10.2)

○ 2
○ 3
○ 4
○ 5

Favorite Flower						
roses	☺	☺	☺	☺		
tulips	☺	☺	☺			
daisies	☺	☺	☺	☺	☺	
lillies	☺	☺				

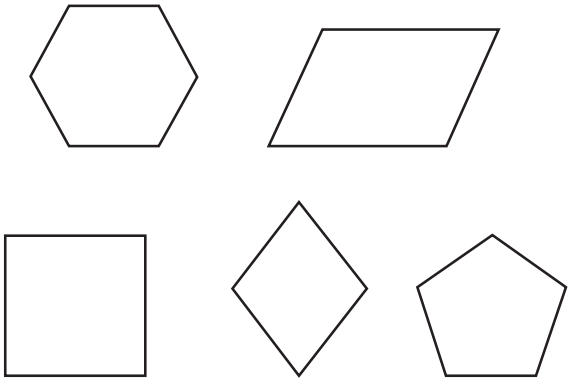
Key: Each ☺ stands for 1 child.

Name _____

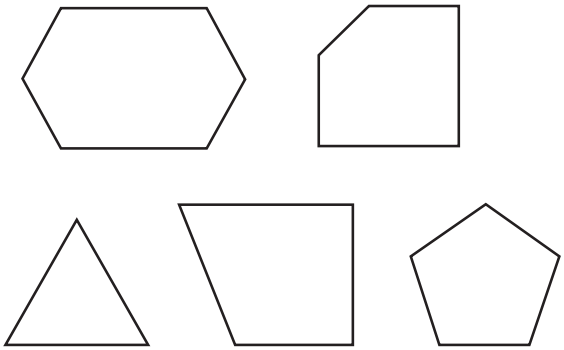
Sort Two-Dimensional Shapes

Circle the shapes that match the rule.

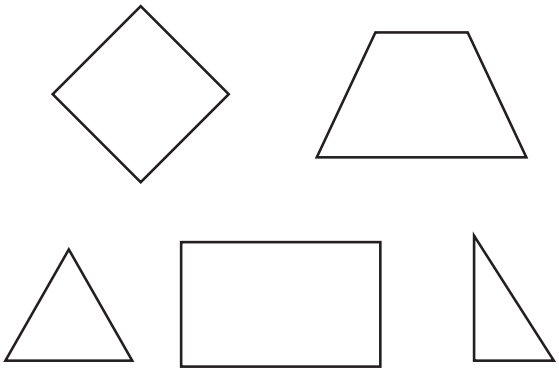
1. Shapes with fewer than 5 sides



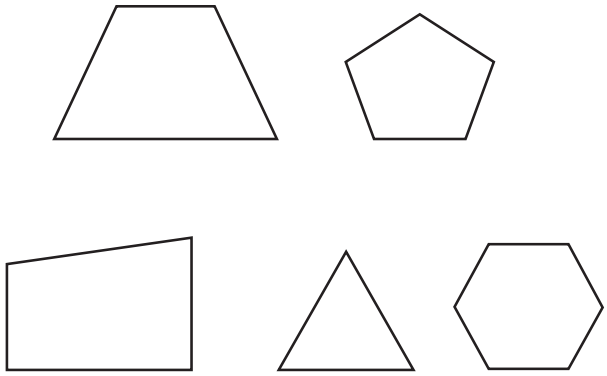
2. Shapes with more than 4 sides



3. Shapes with 4 angles



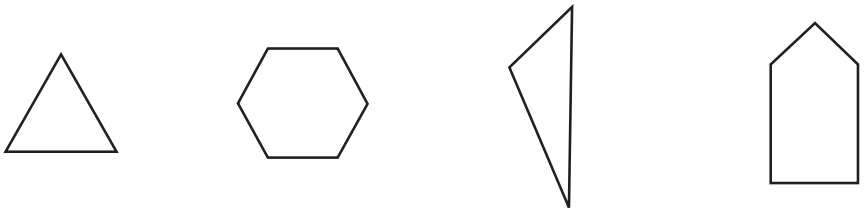
4. Shapes with fewer than 6 angles



PROBLEM SOLVING REAL WORLD

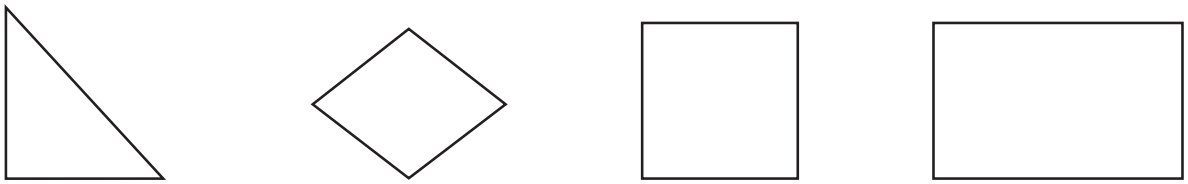
Circle the correct shape.

5. Tammy drew a shape with more than 3 angles. It is not a hexagon. Which shape did Tammy draw?



Lesson Check

1. Which shape has fewer than 4 sides?



○ ○ ○ ○

Spiral Review

2. Use an inch ruler. What is the length of the pencil to the nearest inch? (Lesson 8.4)

○ 1 inch
○ 2 inches
○ 6 inches
○ 8 inches

3. Use the tally chart. How many children chose basketball as their favorite sport? (Lesson 10.1)

○ 4
○ 5
○ 6
○ 7

Favorite Sport	
Sport	**Tally**
soccer	𝍸
basketball	𝍸 ||
football	||||
baseball	||||

Name _____

Partition Rectangles

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

1.

Number of rows: _____

Number of columns: _____

Total: _____ square tiles

2.

Number of rows: _____

Number of columns: _____

Total: _____ square tiles

PROBLEM SOLVING REAL WORLD

Solve. Write or draw to explain.

3. Nina wants to put color tiles on a square. 3 color tiles fit across the top of the square. How many rows and columns of of squares will Nina need? How many color tiles will she use in all?

Number of rows: _____

Number of columns: _____

Total: _____ square tiles

_____ tiles

Lesson Check

1. Use color tiles to cover the rectangle. How many tiles did you use?

○ 1

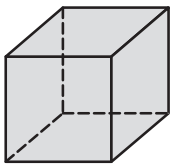
○ 2

○ 3

○ 4

Spiral Review

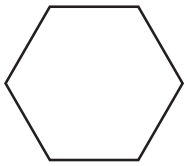
2. How many faces does a cube have? (Lesson 11.2)



○ 4 ○ 8

○ 6 ○ 10

3. How many angles does this shape have? (Lesson 11.4)



○ 6 ○ 8

○ 7 ○ 10

4. Use the tally chart. How many more children chose art than reading? (Lesson 10.1)

○ 10

○ 8

○ 3

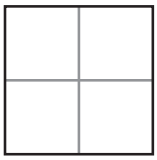
○ 2

Favorite Subject	
Subject	**Tally**
reading	𝍸 |||
math	𝍸 ||||
science	𝍸
art	𝍸 𝍸

Name _____

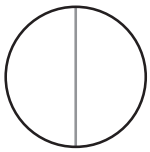
Equal Parts

Write how many equal parts there are in the whole.
Write halves, thirds, or fourths to name the equal parts.

1. 

_____ equal parts

_____

2. 

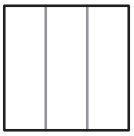
_____ equal parts

_____

3. 

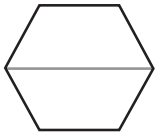
_____ equal parts

_____

4. 

_____ equal parts

_____

5. 

_____ equal parts

_____

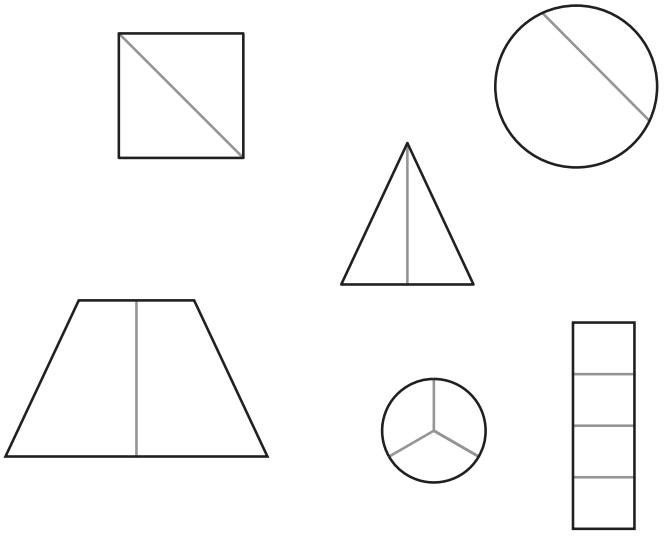
6. 

_____ equal parts

_____

PROBLEM SOLVING

7. Sort the shapes.
   - Draw an X on the shapes that do not show equal parts.
   - Circle the shapes that show halves.



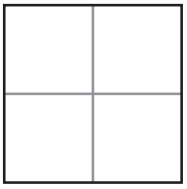
Lesson Check

1. What are the 3 equal parts of the shape called?

○ halves ○ fourths

○ thirds ○ sixths

2. What are the 4 equal parts of the shape called?



○ halves ○ fourths

○ thirds ○ sixths

Spiral Review

3. What is the sum? (Lesson 4.7)

$$\begin{array}{r} 87 \\ +\ 45 \\ \hline \end{array}$$

○ 132 ○ 122

○ 112 ○ 42

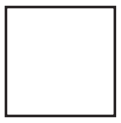
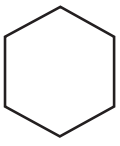
4. What is the difference? (Lesson 5.2)

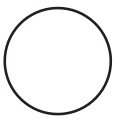
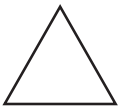
$$\begin{array}{r} 59 \\ -\ 15 \\ \hline \end{array}$$

○ 24 ○ 34

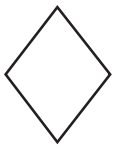
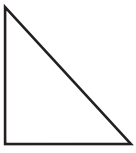
○ 44 ○ 74

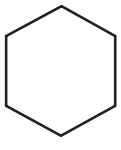
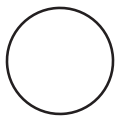
5. Which of the following shapes is a quadrilateral? (Lesson 11.3)

○  ○ 

○  ○ 

6. Which of the following shapes is a hexagon? (Lesson 11.3)

○  ○ 

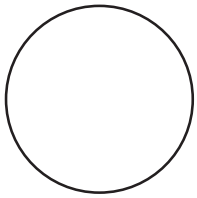
○  ○ 

Name _____

Show Equal Parts of a Whole

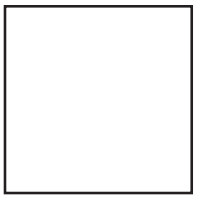
Draw to show equal parts.

1. halves



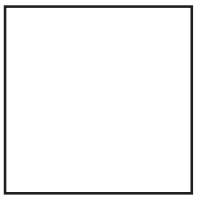
2. fourths

3. thirds

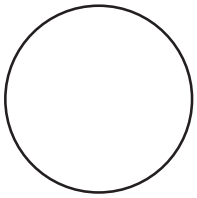


4. thirds

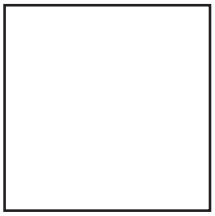
5. halves



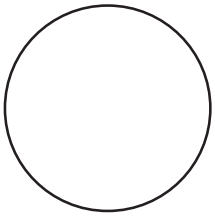
6. fourths



7. fourths



8. halves



9. thirds

PROBLEM SOLVING REAL WORLD

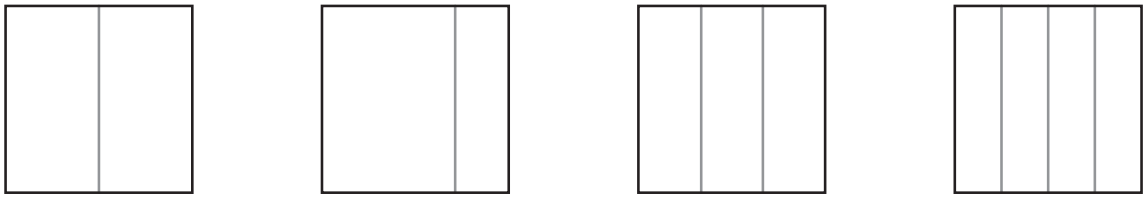
Solve. Write or draw to explain.

10. Joe has one sandwich. He cuts the sandwich into fourths. How many pieces of sandwich does he have?

_____ pieces

Lesson Check

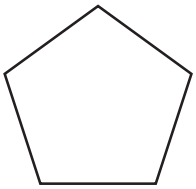
1. Which shape is divided into fourths?



○ ○ ○ ○

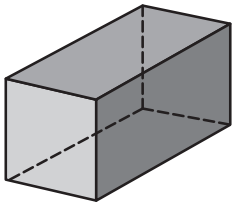
Spiral Review

2. How many angles does this shape have? (Lesson 11.4)



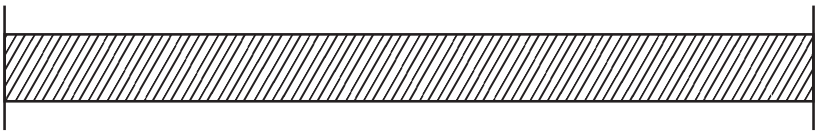
○ 5 ○ 7
○ 6 ○ 8

3. How many faces does a rectangular prism have? (Lesson 11.2)



○ 4 ○ 8
○ 6 ○ 12

4. Use a centimeter ruler. Measure the length of each object. How much longer is the ribbon than the string? (Lesson 9.7)

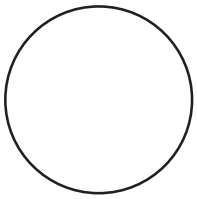


○ 2 centimeters longer
○ 3 centimeters longer
○ 5 centimeters longer
○ 17 centimeters longer

Name _____

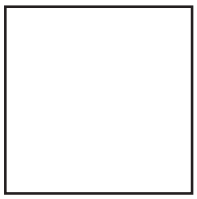
Describe Equal Parts

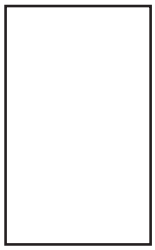
Draw to show halves.
Color a half of the shape.

1. 

2. 

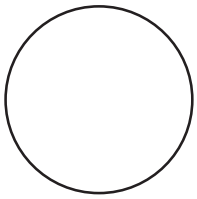
Draw to show thirds.
Color a third of the shape.

3. 

4. 

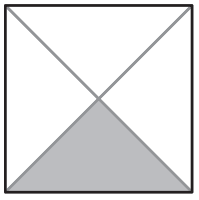
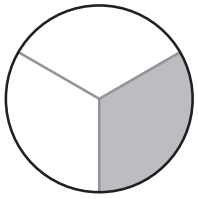
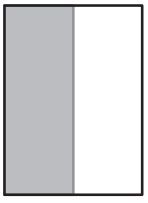
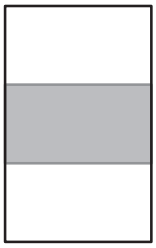
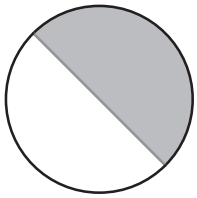
Draw to show fourths.
Color a fourth of the shape.

5. 

6. 

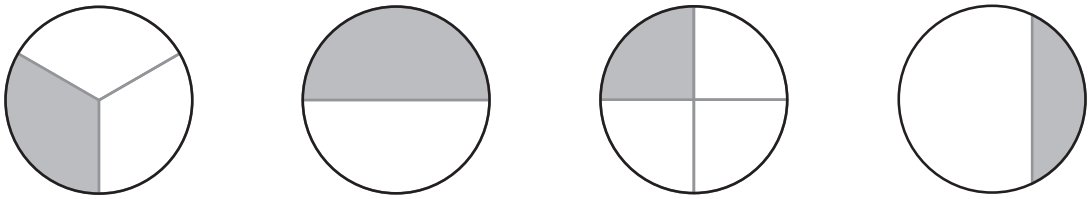
PROBLEM SOLVING

7. Circle all the shapes that have a third of the shape shaded.

Lesson Check

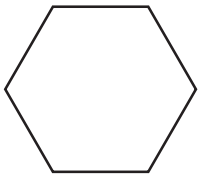
1. Which of these has a half of the shape shaded?



○ ○ ○ ○

Spiral Review

2. What is the name of this shape? (Lesson 11.2)

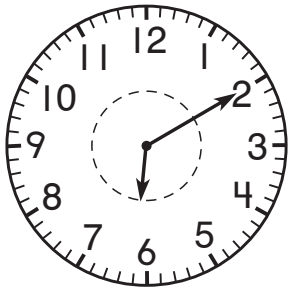


○ hexagon
○ pentagon
○ rectangle
○ triangle

3. Use a centimeter ruler. What is the length of the string to the nearest centimeter? (Lesson 9.3)

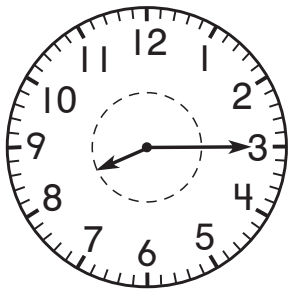
○ 2 centimeters
○ 4 centimeters
○ 6 centimeters
○ 8 centimeters

4. The clock shows the time Chris finished his homework. What time did Chris finish his homework? (Lesson 7.11)



○ 2:10 A.M. ○ 6:10 P.M.
○ 2:30 A.M. ○ 2:30 P.M.

5. What time is shown on this clock? (Lesson 7.9)



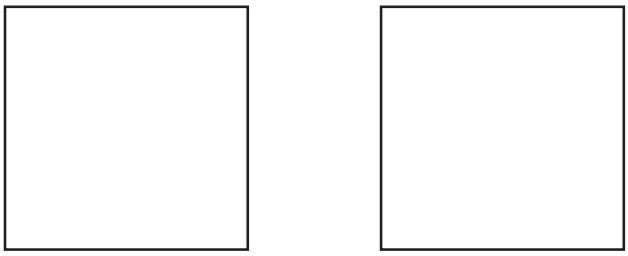
○ 3:40 ○ 8:15
○ 8:03 ○ 9:15

Name _____

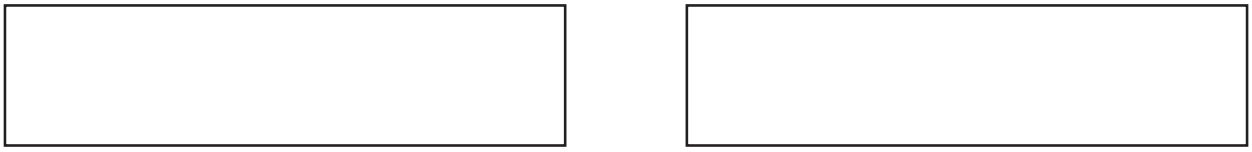
Problem Solving • Equal Shares

Draw to show your answer.

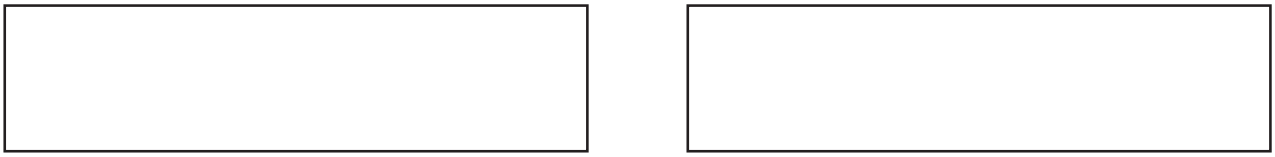
1. Max has square pizzas that are the same size. What are two different ways he can divide the pizzas into fourths?



2. Lia has two pieces of paper that are the same size. What are two different ways she can divide the pieces of paper into halves?

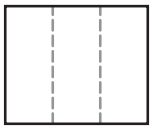


3. Frank has two crackers that are the same size. What are two different ways he can divide the cracker into thirds?

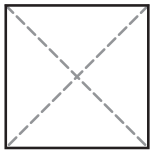


Lesson Check

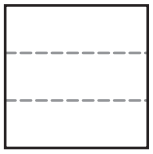
1. Bree cut a piece of cardboard into thirds like this.



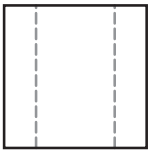
Which of these shows another way to cut the cardboard into thirds?



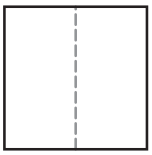
○



○



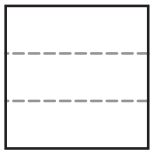
○

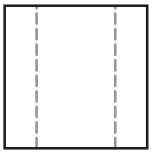


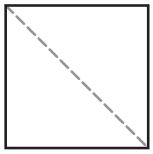
○

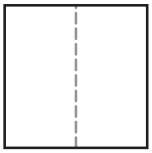
Spiral Review

2. Which shape has 3 equal parts? **(Lesson 11.7)**

○ 

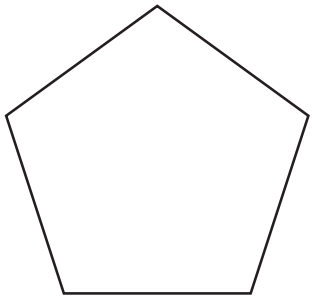
○ 

○ 

○ 

3. How many angles does this shape have? **(Lesson 11.5)**

○ 3
○ 4
○ 5
○ 6



4. What is the best estimate for the width of a door? **(Lesson 10.4)**

○ 1 foot
○ 3 feet
○ 6 feet
○ 10 feet

5. Which is another way to write 10 minutes after 9? **(Lesson 7.10)**

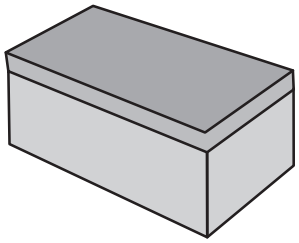
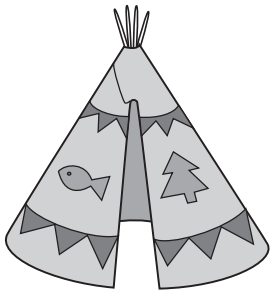
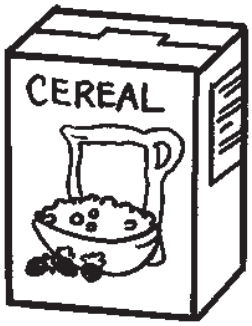
○ 8:50
○ 9:10
○ 9:50
○ 10:10

Name _____

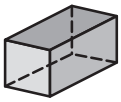
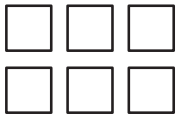
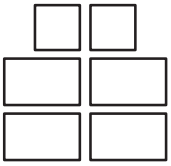
Chapter 11 Extra Practice

Lessons 11.1-11.2 (pp. 509–516)

Circle the objects that match the shape name.

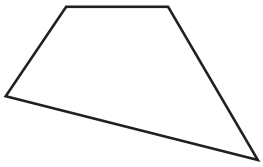
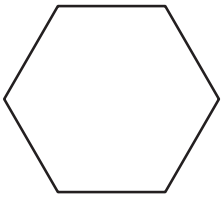
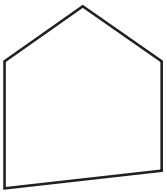
1. rectangular prism			

Circle the set of shapes that are the faces of the three-dimensional shape.

2.   

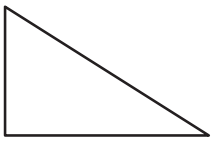
Lesson 11.3 (pp. 517–520)

Write the number of sides and the number of vertices.

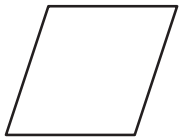
1. 	2. 	3. 
_____ sides _____ vertices	_____ sides _____ vertices	_____ sides _____ vertices

Lesson 11.4 (pp. 521–524)

Circle the angles in each shape. Write how many.

1. 

____ angles

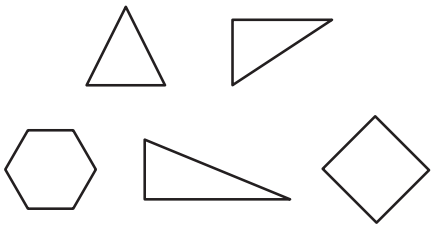
2. 

____ angles

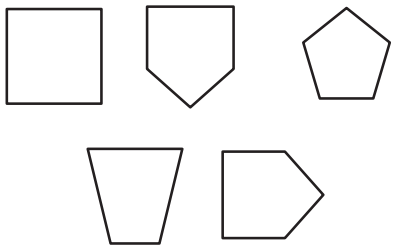
Lesson 11.5 (pp. 525–528)

Circle the shapes that match the rule.

1. Shapes with fewer than 4 sides

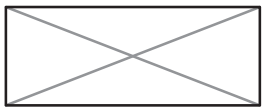


2. Shapes with 5 angles



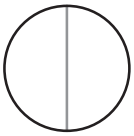
Lesson 11.7 (pp. 533–536)

Write how many equal parts there are in the whole.
Write halves, thirds, or fourths to name the equal parts.

1. 

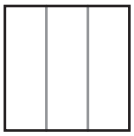
____ equal parts

_____

2. 

____ equal parts

_____

3. 

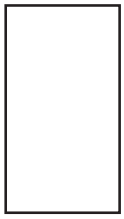
____ equal parts

_____

Lesson 11.8 (pp. 537–540)

Draw to show equal parts.

1. fourths



2. halves