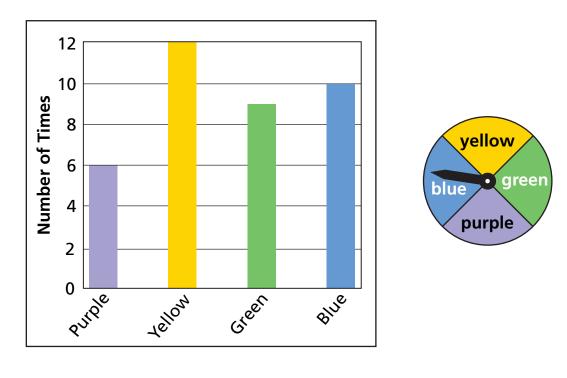


A group made a graph of their 4-person spinner game.



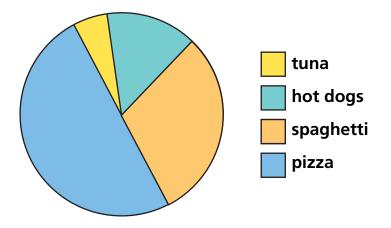
Which color won the game? ______

2 How many times did the spinner stop on green? _____

- If purple and yellow were a team, and blue and green were a team, which team won?
- 4 The spinner stopped on yellow _____ more times than on green.

5 How many times did this group spin the spinner? _____

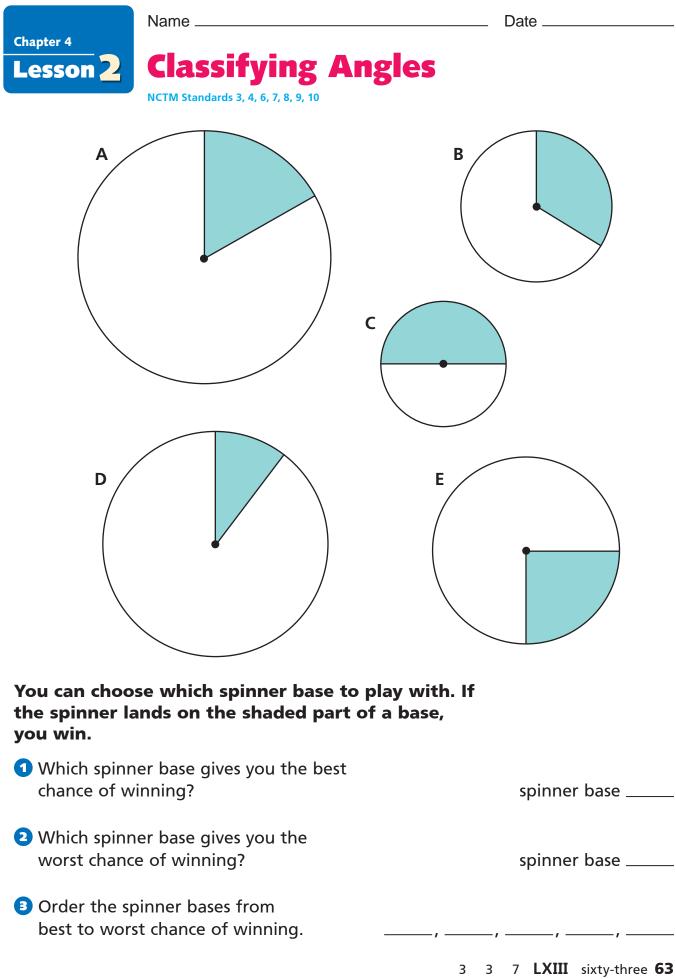
The students at Jefferson School were asked about their favorite school lunches.



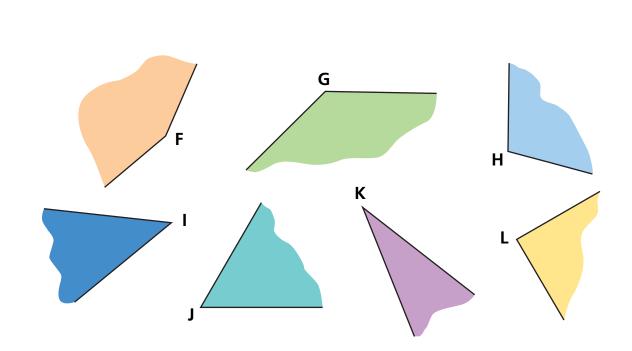
Write if the statement is true or false.

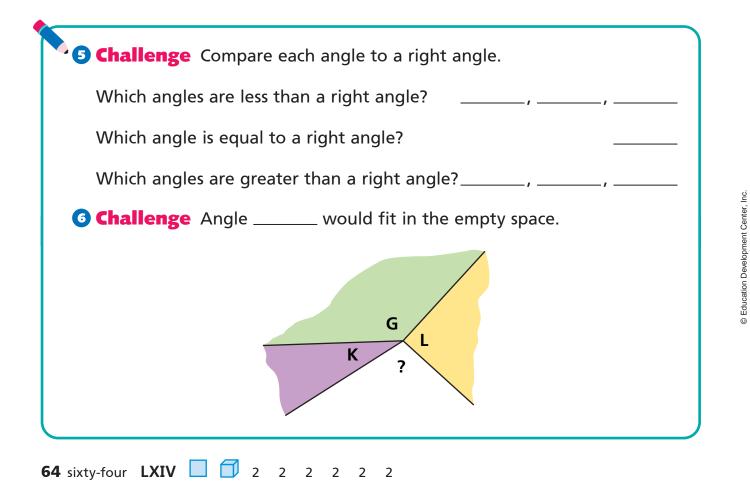
- 6 About half of the students chose pizza.
- More students chose pizza than hot dogs and spaghetti put together.
- 8 No one liked tuna.
- 9 Hot dogs were less popular than spaghetti.
- O About half as many students chose tuna as chose pizza.

 Challenge If you created a spinner that looked like the pie chart above, would it be a fair spinner? Why or why not? Use pictures, numbers, or words to explain your answer.



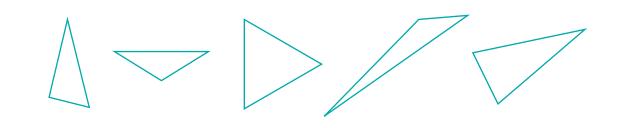
4 Order the angles from the smallest to the largest.







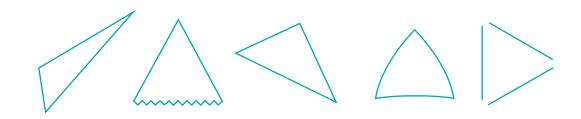
These are triangles.



These are not triangles.

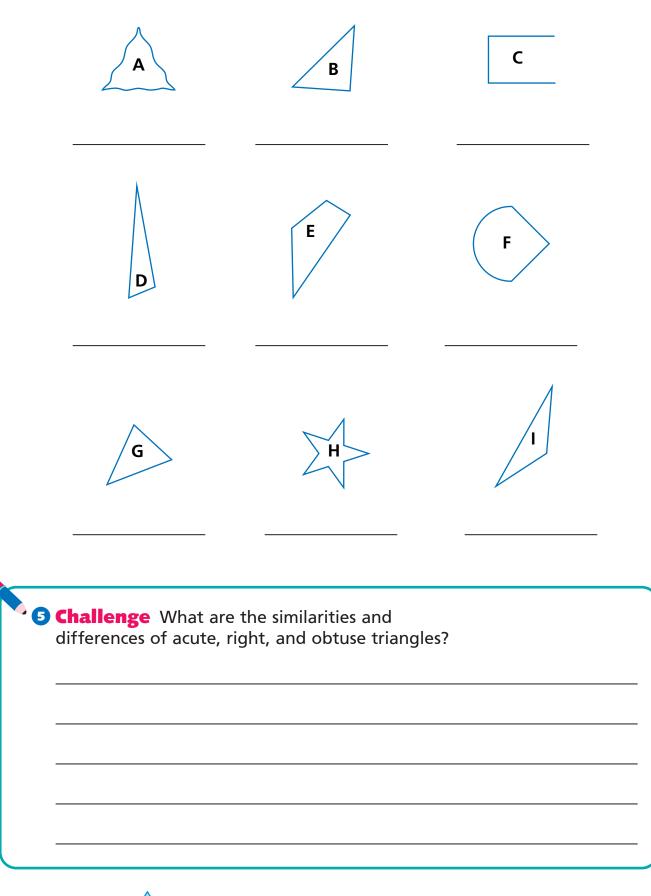


1 Which of these are triangles? Circle the triangles.



2 Draw a triangle that is different from the others on the page.

 Describe a triangle in your own words. 4 Circle the triangles and label them acute, right, or obtuse.



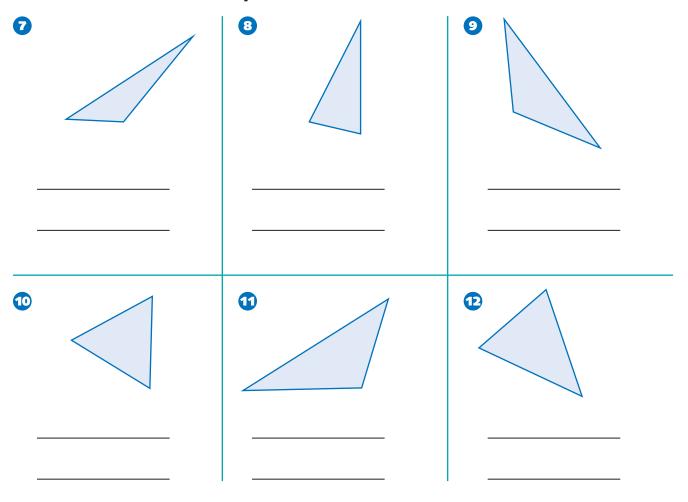
Name	Date	
Lesson 4 Classifying 1 by Side Leng NCTM Standards 3, 4, 6, 7, 8, 9, 10	riangles gth	
A	B C C obtuse and isosceles	
right and scalene acute and D E C C C C C C C C C C C C C C C C C C	FG	
 I have 2 sides that are the same length and 1 right angle. 	2 All of my sides are the same length. All of my angles are the same.	
I am triangle	I am triangle	
I have exactly 2 sides that are the same length and 3 acute angles. I am triangle	 I have no equal sides. All of my angles are acute. I am triangle 	
5 All of my sides are different lengths. I have an obtuse angle.	Two of my sides are the same length. One of my angles is greater than a right angle.	
I am triangle	I am triangle	

prime LXVII sixty-seven 67

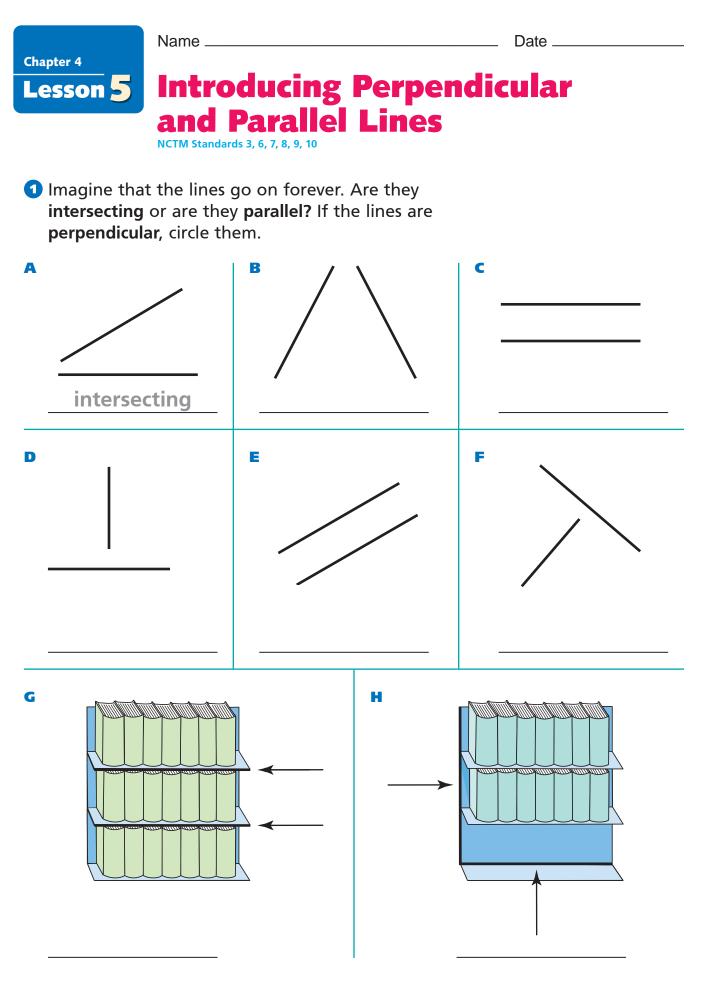
Use a ruler and the corner of a piece of paper to help label each triangle with the 2 names that best describe it:

a. acute, right, or obtuse; and

b. scalene, isosceles, or equilateral.

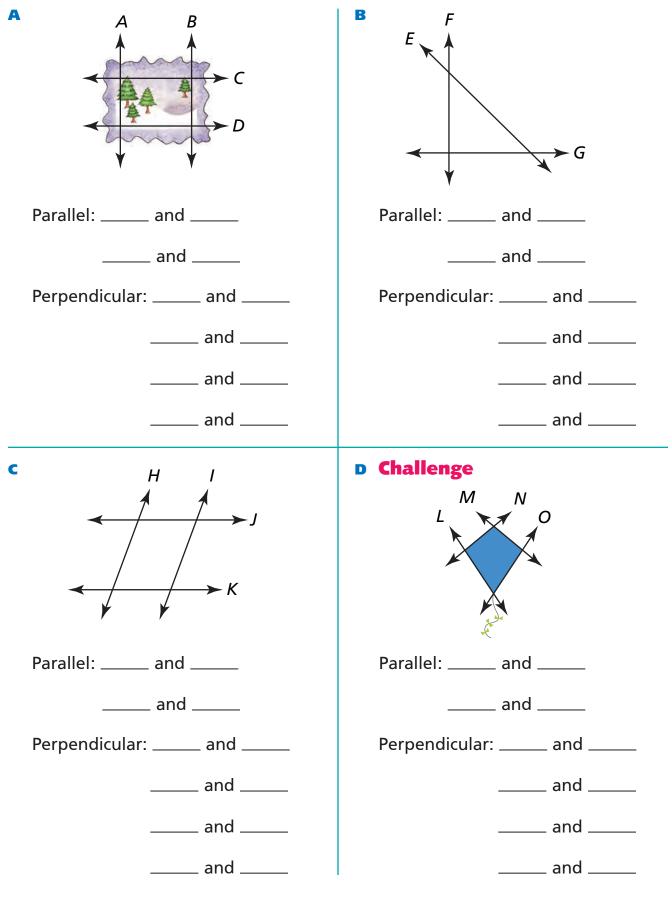


Challenge Draw a triangle and write clues to describe it. You might write about the number of equal sides, or the name of each angle.



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Identify the parallel and perpendicular lines in the figures.
 If there are no more, put an "x" on the answer line.



70 seventy **LXX** 2 5 7



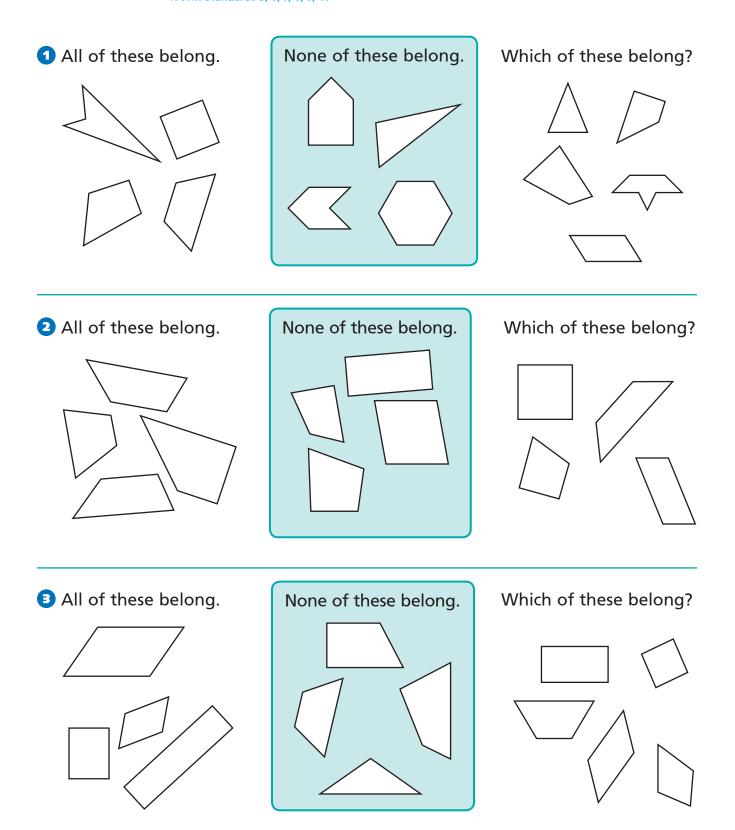
Chapter 4

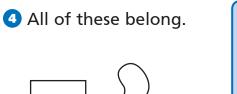
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Lesson 👩

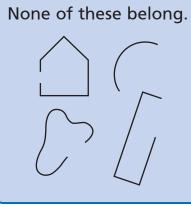
Date _____

Classifying Quadrilaterals by the Number of Parallel Sides

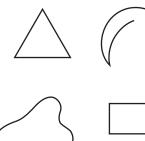






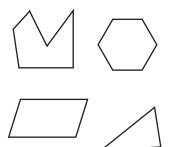


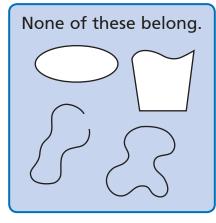
Which of these belong?



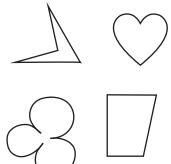


5 All of these belong.





Which of these belong?



6 Challenge What do the figures that belong in Problem 4 have in common? Use pictures, numbers, or words to explain your answer.

Challenge What do the figures that belong in Problem 5 have in common? Use pictures, numbers, or words to explain your answer.

	Name	Date
Chapter 4		
Lesson 7	Classifying	Parallelograms
	NCTM Standards 3, 6, 7, 8, 9, 10	

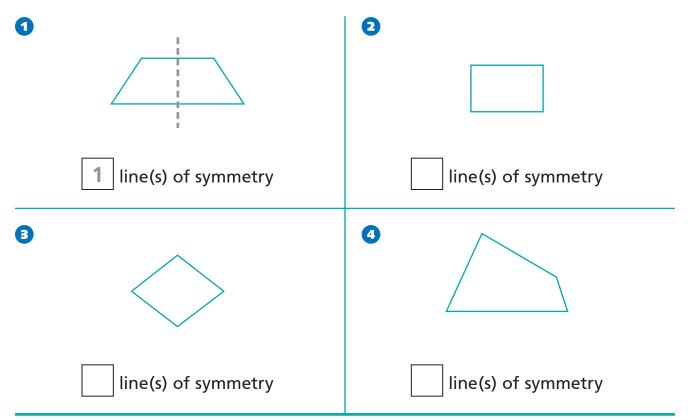
Each figure has at least one of these names: parallelogram, rectangle, rhombus, square, trapezoid.

 I have exactly one pair of parallel sides. 	2 All of my sides are equal. All of my angles are equal.
l am quadrilateral	l am quadrilateral
l am a	l am a
I have 2 pairs of parallel sides.	All of my sides are the same length.
l am quadrilateral,,	I am quadrilateral or
or	l am a
l am a	I am sometimes a
I am sometimes a,	
a or a	
I have 2 pairs of parallel sides. I have at least one right angle.	I have more than 1 pair of parallel sides. My sides are not all the same length.
l am quadrilateral or	I am quadrilateral or
l am a	l am a
l am sometimes a	I am sometimes a

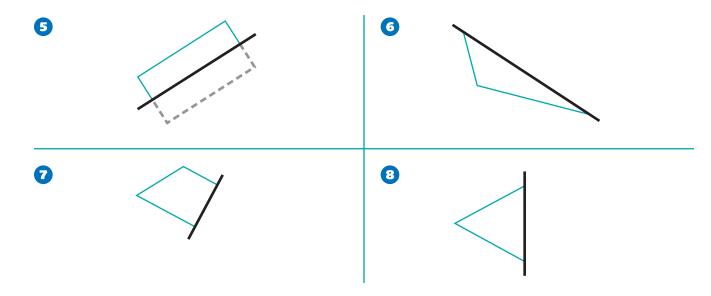
A C D	E G F
7 List all:	
A quadrilaterals	rhombuses
B trapezoids	E rectangles
c parallelograms	F squares
Write whether the statement is <i>true</i> or	false.
8 Some quadrilaterals are parallelograms.	true
Oll squares are parallelograms.	
O All parallelograms are squares.	
① All squares are rectangles.	
All rectangles are squares.	
All parallelograms are rectangles.	
All quadrilaterals are either trapezoids or parallelograms.	
Challenge	
Some rhombuses are rectangles.	
Some squares are trapezoids.	
All squares are rhombuses.	



Sketch any lines of symmetry for these figures.



Complete each figure by reflecting across the line of symmetry.



	E	F I N
C D	G	H K M

Draw the lines of symmetry for each figure and list all figures with:

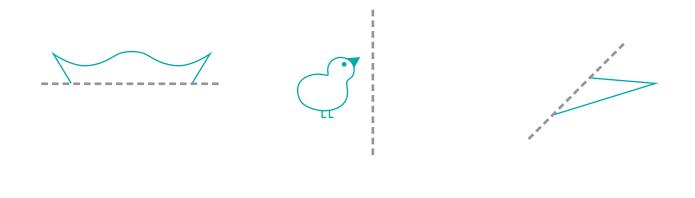
9 no lines of symmetry	
<pre> • exactly 1 line of symmetry </pre>	
exactly 2 lines of symmetry	
exactly 3 lines of symmetry	
Image and the	
Write whether the statement is <i>true</i>	or <i>fals</i> e.
If a quadrilateral has exactly 1 line of s it is a rectangle.	symmetry,
If a triangle has more than 1 line of symmetry, it's equilateral.	
If a triangle has 0 lines of symmetry, it's scalene.	
Challenge	
1 If a figure has exactly 2 lines of	

- symmetry, it's not a triangle.
- If a figure has exactly 3 lines of symmetry, it's not a quadrilateral.
- A rhombus has more lines of symmetry than any other quadrilateral.

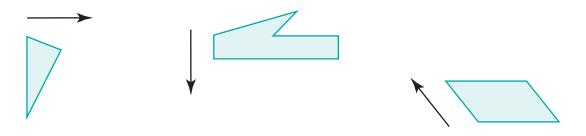


Perform each transformation.

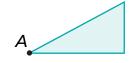
1 Reflect across the dotted line.

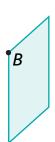


2 Translate in the direction of the arrow so that the resulting figure does not overlap with the original.



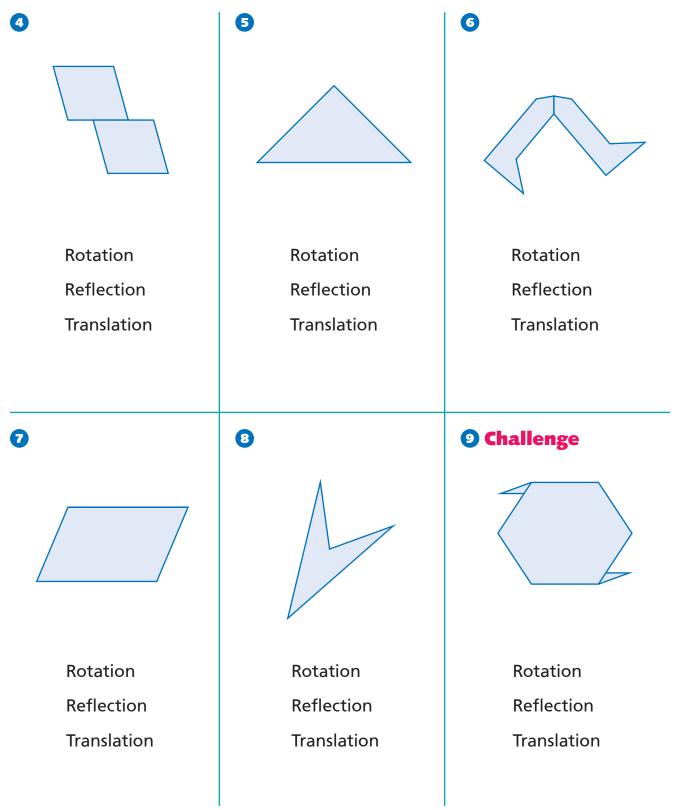
Brotate around the labeled point so that the resulting figure does not overlap with the original.



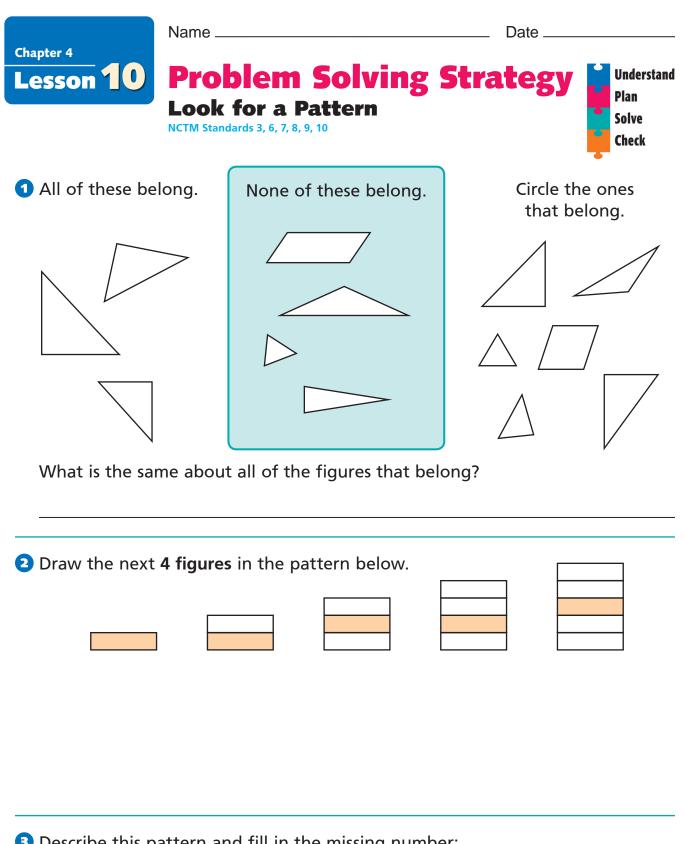


Show how to cut each figure into two congruent pieces.

Explain why the two pieces in each figure are congruent by circling all the terms that describe the transformation.



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Describe this pattern and fill in the missing number:
 1, 3, 9, _____, 81, 243. Explain.

Problem Solving Test Prep

Choose the correct answer.

 The Wu family bought 2 adult, 1 child, and 3 student tickets.

AMUSEMENT PARK				
Ticket Price				
Adult	\$11.95			
Student	\$10.50			
Child (under 6)	\$8.25			

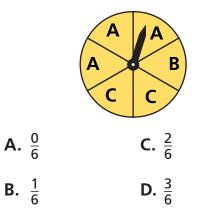
If they gave the cashier \$100.00, how much change did they receive?

Α.	\$35.35	С.	\$44.60
	•		•

- **B.** \$36.35 **D.** \$63.65
- 2 Cassie had 150 invitations to send. She sent 55 on Monday and 42 on Tuesday. How many invitations does Cassie still have to send?

Α.	53	С.	108
B.	95	D.	247

Which fraction represents the part of the spinner labeled B?



- The electronics store received 8 large boxes of batteries. Each large box had 16 small boxes in it. Each small box had 6 batteries in it. How many batteries did the store receive?
 - A. 30 batteries C. 128 batteries
 - B. 96 batteries D. 768 batteries

Show What You Know

Solve each problem. Explain your answer.

- Mike's family bought 147 tickets for fair rides. Each ride takes 3 tickets.
 Do they have enough tickets to ride 50 rides? Explain.
- O What is the next figure in the pattern? Explain.

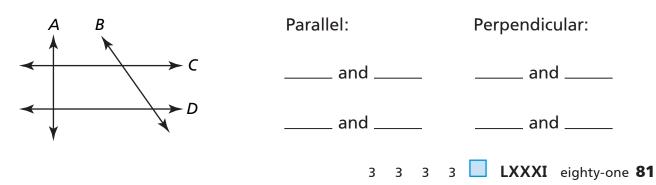


	Name		Date _	
Chapter 4 Review/Assessment				
Use the angle	es to answer the q	uestions. Lesso	n 2	
A	В	C	D	E
Order the angles from the largest to the smallest,,,,,				
2 Compare ea	ach angle to a right a	angle.		
Which angle	es are acute angles?		/	
Which angle	e is a right angle?			
Which angle	es are obtuse angles	?	/	

Label each triangle as *acute, right,* or obtuse, and *scalene, isosceles,* or *equilateral.* Lesson 4



6 Identify the parallel and perpendicular lines in the figure. If there are no more, put an "X" on the answer line. Lesson 5



List all names for each figure: *parallelogram*, *rectangle*, *rhombus*, *square*, or *trapezoid*. Lesson 6

