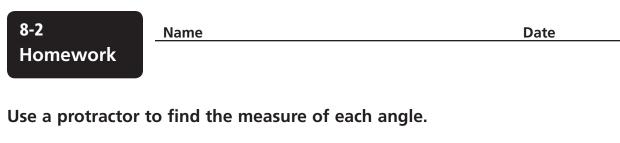
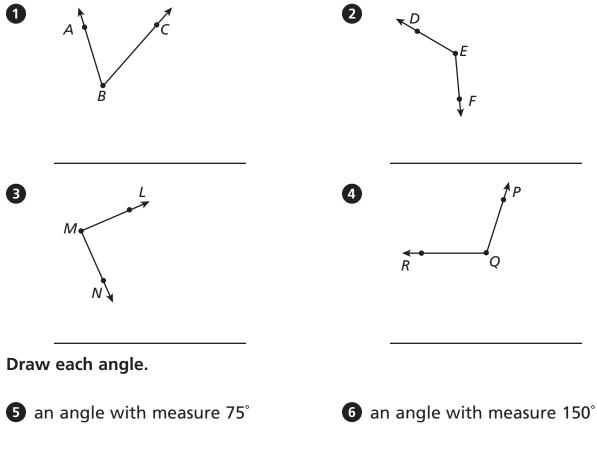


8-1 Remembering	Name			Date
Add or subtract.				
1 $5\frac{4}{5}$ + $3\frac{1}{5}$	2 $12\frac{5}{8}$ $-4\frac{3}{8}$	3 + 	3 <u>5</u> 9 <u>3</u> 7	
Write $<$ or $>$ to m	ake each sta	tement true.		
5 $\frac{3}{4}$ $1\frac{1}{4}$	6	$\frac{5}{6}$ \bigcirc $\frac{5}{4}$	7 $\frac{7}{10}$	$\bigcirc \frac{7}{12}$
$8 \ \frac{6}{8} \bigcirc \frac{4}{8}$	9	$\frac{4}{8}$ \bigcirc $\frac{4}{12}$	$17 \frac{17}{25}$	$\bigcirc \frac{21}{25}$
Mark and label number with it	-	or each fraction	or mixed	
<	+ + + + + 1	2	+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + > 5
a. $2\frac{1}{2}$	b. 3 ⁵ / ₈	c. $\frac{1}{4}$	d. 1 ⁴ / ₈	e. 3 ¹ / ₈
f. $2\frac{3}{4}$	g. 3 ¹ / ₂	h. 1 ⁷ / ₈	i. <u>6</u>	j. $4\frac{3}{8}$
right along the spider starts wa	are window top of the v alking down Name each	spiders sit on th frame. One spic window frame. T along the left si of the following	der starts walkir The other ide of the	ng
a .) the place w	here the spic	ders began		
b.) the walking	path of eac	h spider		
c.) the type of	angle forme	d by their paths		
176 UNIT 8 LESSON 1				Points, Rays, and Angle





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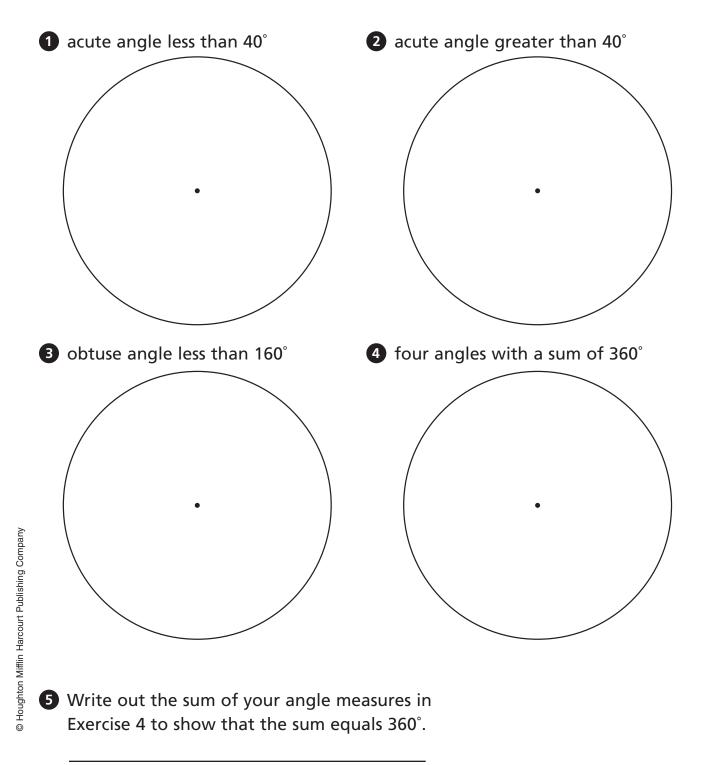
On a protractor there are two scales. Read one scale to find 44°. What is the measure on the other scale?

8 Which would be greater, the measure of a right angle or the measure of an obtuse angle?

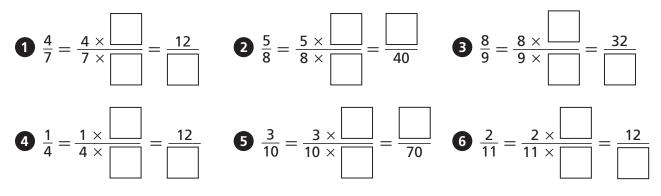
8-2	Name	Date
Remembering		
Solve.		Show your work.
medium pop	red a small popcorn and Ella ord ocorn. They both ate $\frac{3}{4}$ of their port repopcorn? Explain.	
Jack had his	a Jack and Scott 12 minutes to we headphones on for $\frac{2}{3}$ of the wal or $\frac{2}{5}$ of the walk. Who had their Explain.	k and Scott
Draw each geor 3 a line segme		5 an angle
6 Name the ar	ngle shown.	Q R
of a clock as	Thinking You can think of the trays of an angle. What type of a veen the clock hands when the c	angle do clock shows
the followin	g times? Draw a sketch, if you n	
	g times? Draw a sketch, if you h	
a.) 3:05		

8-3 Homework

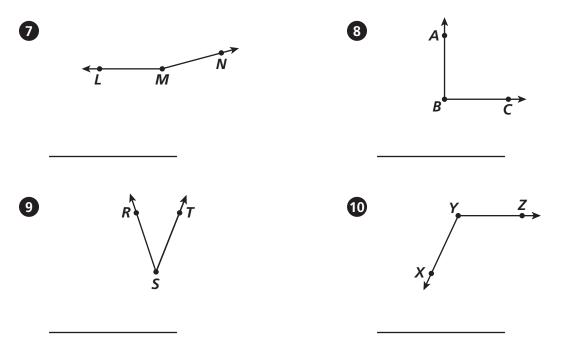
Use a straightedge and a protractor to draw and shade an angle of each type. Measure and label each angle.



Complete.

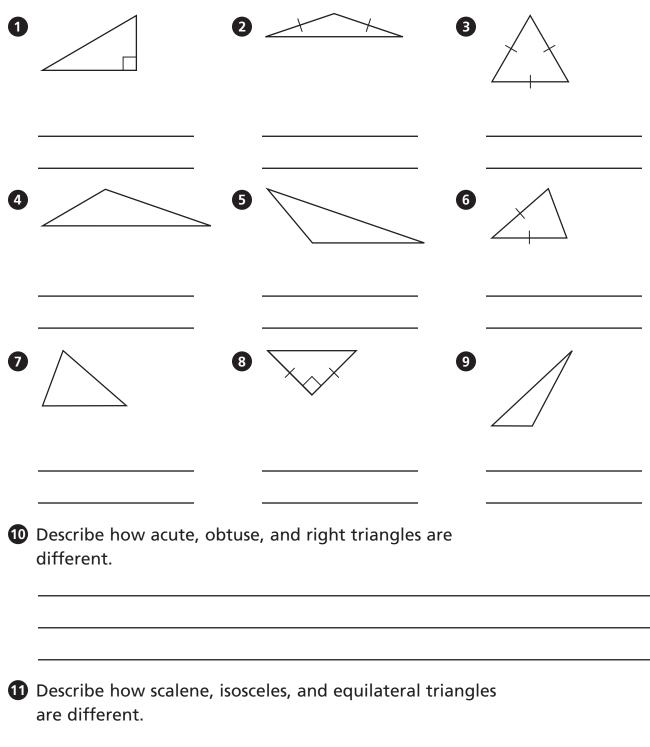


Use a protractor to find the measure of each angle.



1 Stretch Your Thinking Draw an angle with a measure of 0°. Describe your drawing.

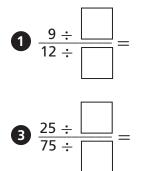
Name each triangle by its angles and then by its sides.

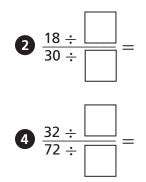


Date

8-4 Remembering

Simplify each fraction.





Date

The measure of each shaded angle is given. Write the measure of each angle that is not shaded.

Name

5 200° 125°

Stretch Your Thinking Aileen is trying to correctly classify a triangle by its angles. Her only information is that the triangle has at least one acute angle. Aileen says this must be an acute triangle. Is she right? Explain.

Use a protractor to draw the two described angles next to each other. What is the measure of the larger angle they form when they are put together?

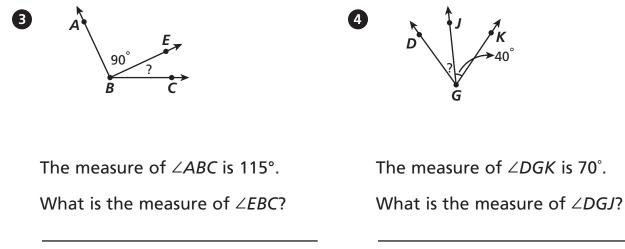


1 The measures of the two angles are 20° and 55°.

2 The measures of the two angles are 65° and 95°.

Date

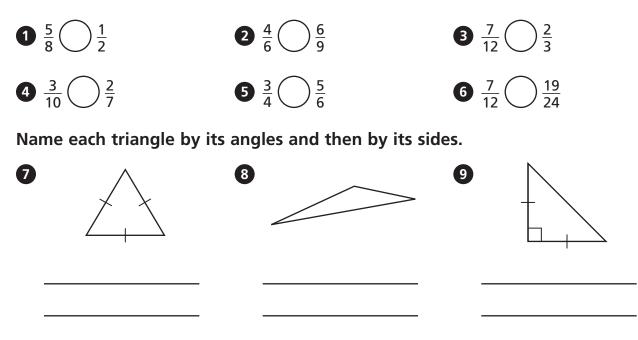
Write and solve an equation to find the unknown angle measure.



5 When two 45° angles are put together, what kind of angle will they form?

Use a common denominator to compare the fractions. Write >, <, or = to make a true statement.

Name



Stretch Your Thinking Four angles are put together, forming a straight angle. Two of the angles are the same size. The other two angles are also the same size but different from the other two. If one of the four angles measures 40°, what are the measures of the other three angles? Explain.

Date

Write an equation to solve each problem.

8-6

Homework

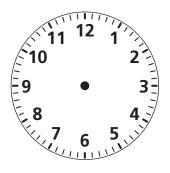
 Suppose you are bicycling along a straight road that suddenly starts sloping up a hill. You want to know what the angle measure of the slope is, but you can't measure inside the hill.

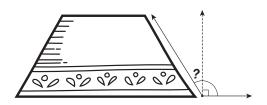
If you are able to measure the angle on top of the road, however, you can use an equation to find the unknown measure. What is the angle of the slope of the hill shown?

On the clock face shown at the right, draw clock hands to show the times 3:00 and 5:00. One clock hand for each time will overlap with a clock hand from the other time. What is the difference between the measures of the angles formed by the hands of the clocks for the two times? (Hint: There are 30° between each pair of numbers on a clock.)

 A lampshade is often sloped, with the top narrower than the bottom. For the lampshade shown, the whole angle shown is 122°.
 Find the measure of the unknown angle to find by how much the lampshade is sloped from upright.

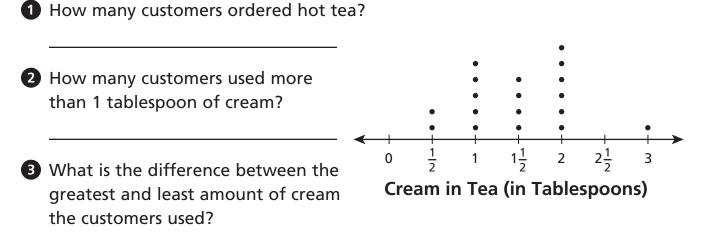




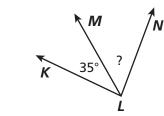


The line plot shows the amount of cream put in a cup by each of a restaurant's lunch customers who ordered hot tea. Use the line plot for Problems 1–3.

Name



Use an equation to find the unknown angle measure.



4

B D T ? 42° C E

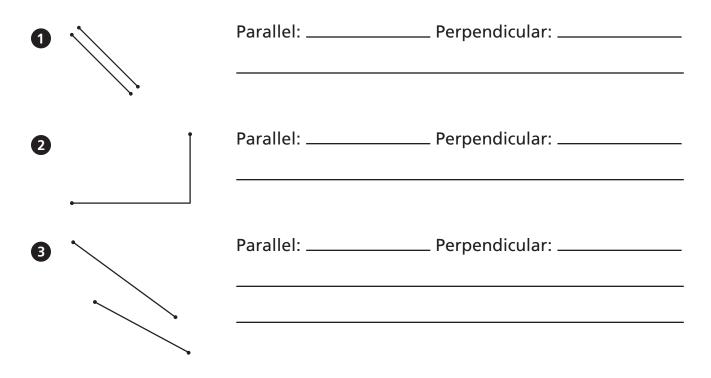
The measure of $\angle KLN$ is 85°.

The measure of $\angle BCE$ is 125°.

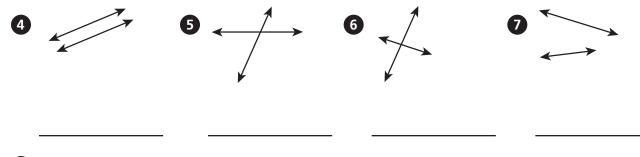
Date

6 Stretch Your Thinking Hannah says that when the hands on a clock show 9:30, the angle is 90°. Jennie says the angle is obtuse. Who is correct? Explain. Make a drawing to show which girl is correct.

Which of the line segments below look parallel? Which look perpendicular? Which look neither parallel nor perpendicular? Explain your thinking.



Tell whether each pair of lines is *parallel*, *perpendicular*, or *neither*.



8 First draw a line segment 5 centimeters long. Then draw a line segment 7 centimeters long parallel to your first line segment.

Use the visual to fill in each blank.

1 The shaded part of the whole represents:

 $\frac{30}{100}$ represents _____ of ____ equal parts

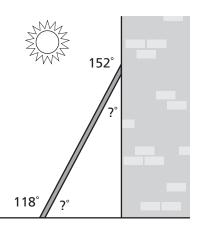
and the decimal _____.

 $\frac{3}{10}$ represents _____ of ____ equal parts

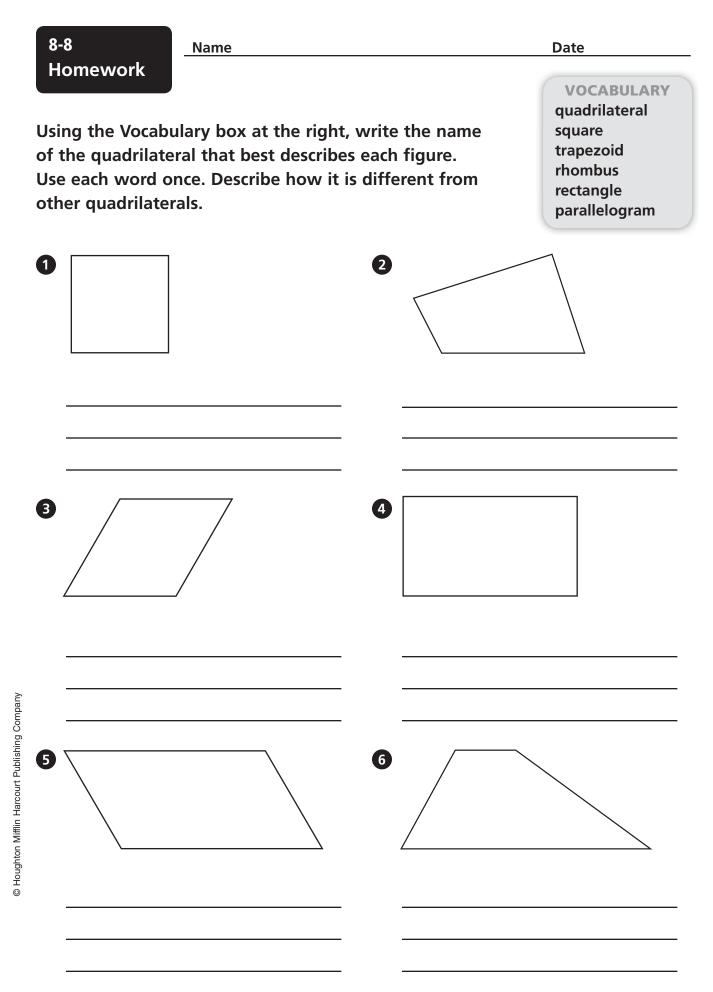
and the decimal _____.

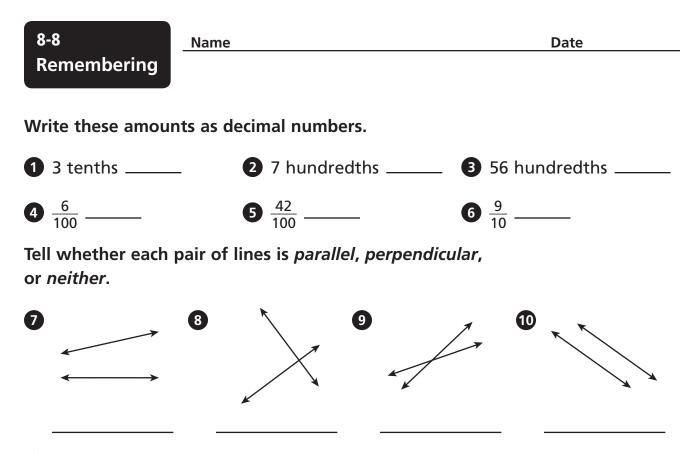
Write an equation to solve each problem.

- 2 A ladder leans up against a wall, as shown in the diagram. What angle measure does the ladder form with the wall?
- 3 What angle measure does the ladder form with the ground?



Stretch Your Thinking Look around the room.
 Describe 3 pairs of parallel line segments you see.
 Describe 3 pairs of perpendicular line segments.



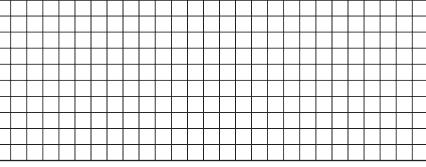


 First draw a line segment 4 centimeters long. Then draw a line segment 3 centimeters long that is not parallel nor perpendicular to the first line.

Stretch Your Thinking Bianca has a certain shape in mind. She says it has all the following names: quadrilateral, parallelogram, and rectangle. Make a drawing that could be Bianca's shape. Explain why it has each of these names.



Draw a rectangle and a parallelogram. Draw one diagonal on each figure. Name the kinds of triangles you made.



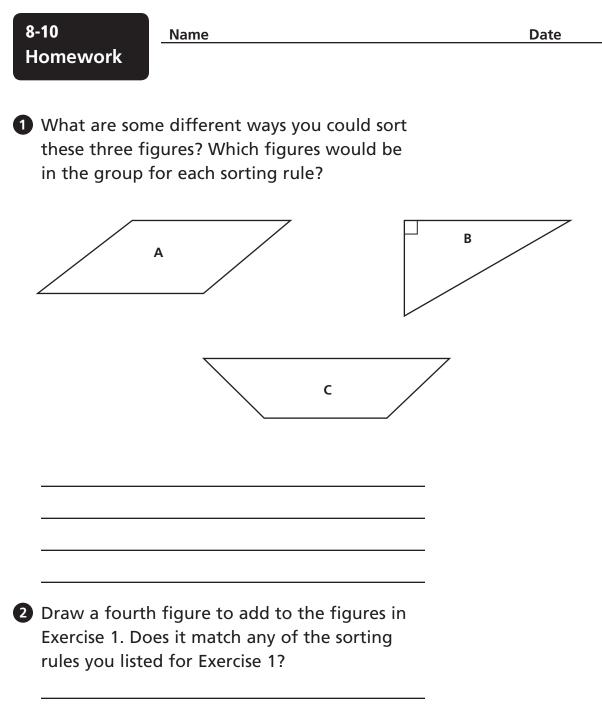
2 Draw your figures again. Draw the other diagonal and name the kinds of triangles you made this time.

 Use geometry words to describe how diagonals of quadrilaterals make triangles.

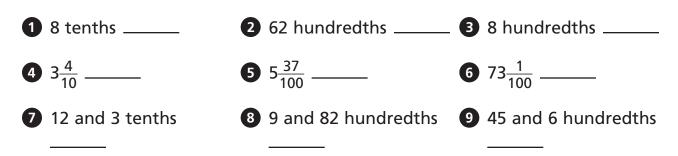
Use geometry words to describe a way to separate triangles into other triangles.

Write the decimal numbers that come next. 0.01 0.02 0.03 0.4 0.5 0.46 0.47 0.48 Using the Vocabulary box at the right, write the name of the quadrilateral that best describes each figure. Use each word once. Describe how it is different from other quadrilaterals. (a) (b) (c) (c) (c) (c) (c) <th>8-9 Remem</th> <th>nbering</th> <th>Name</th> <th></th> <th></th> <th></th> <th>[</th> <th>Date</th> <th></th>	8-9 Remem	nbering	Name				[Date	
 2 0.3 0.4 0.5	Write the	e decim	nal numbers	that com	ne next.				
 0.46 0.47 0.48 Using the Vocabulary box at the right, write the name of the quadrilateral that best describes each figure. Use each word once. Describe how it is different from other quadrilaterals. 	0.01	0.02	0.03						
Using the Vocabulary box at the right, write the name of the quadrilateral that best describes each figure. Use each word once. Describe how it is different from other quadrilaterals.	2 0.3	0.4	0.5						
of the quadrilateral that best describes each figure. Use each word once. Describe how it is different from other quadrilaterals.	3 0.46	0.47	0.48						
	other qua			be how i		rent from			le
						/			

each of the following quadrilaterals: rectangle, trapezoid parallelogram. In which figures do triangles with the same size and shape form? In which figures do triangles with a different size and shape form? Explain.

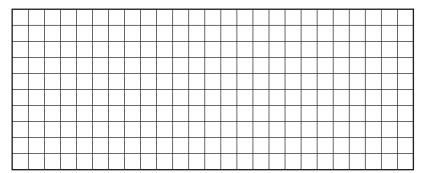


Write each amount in decimal form.

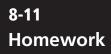


Draw a square and a rhombus. Draw one diagonal on each figure. Name the kinds of triangles you made.

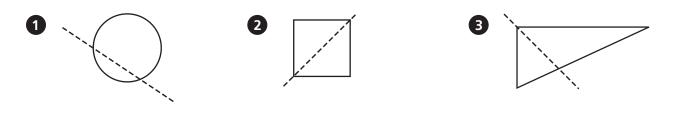
Draw your figures again. Draw the other diagonal and name the kinds of triangles you made this time.



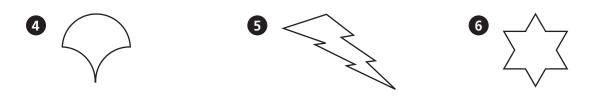
Stretch Your Thinking Draw and name three polygons that each have at least one right angle. Label each right angle on the polygons. © Houghton Mifflin Harcourt Publishing Company



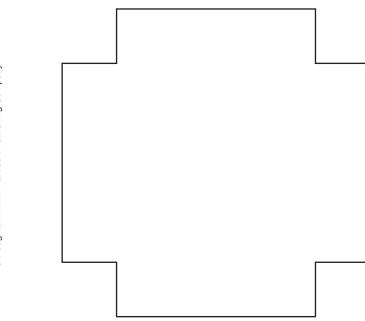
Tell whether the dotted line is a line of symmetry.



How many lines of symmetry does each figure have?



7 Draw any lines of symmetry for this figure.



8-11 Remembering	Name		Date
Add or subtract.			
1 12,493 + 6,551	2 536,784 - 69,205	•	0,040 8,276
-	e different ways you could Which figures would be i ng rule?		A
•	figure to add to the figu any of the sorting rules y		
not the design square dinner letter M, tenn have line symme more than one	Thinking Consider only the of the following real life plate, stop sign, American is racket. Which of these of metry? Which of these obj e line of symmetry? Write first name. Does it have li	e objects: n flag, letter P, objects jects have the first	

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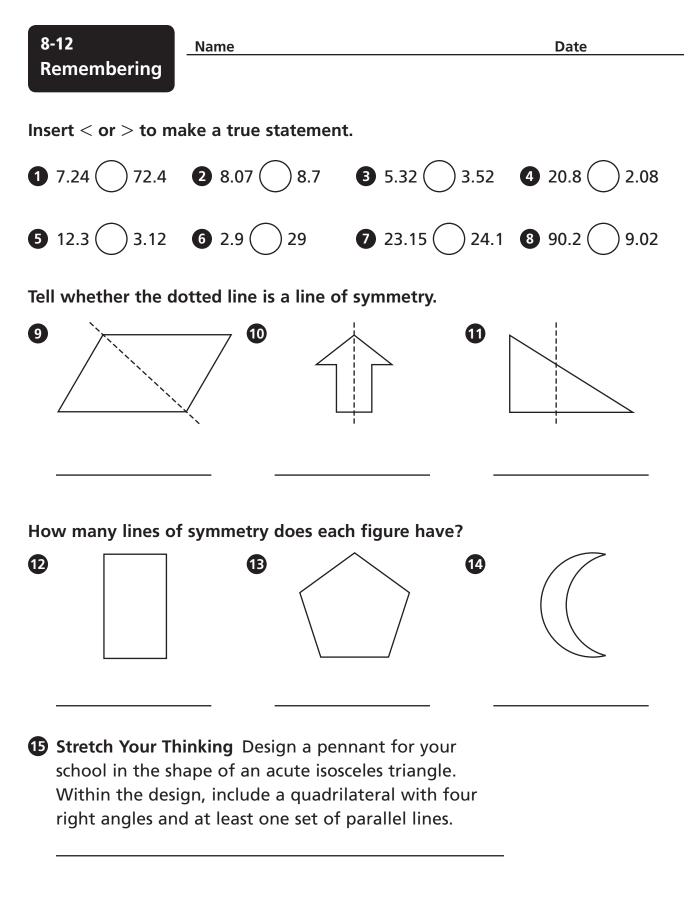
Homework

8-12

Draw a flag design. The design must include a quadrilateral with 2 lines of symmetry. The flag must also have a triangle with a 45° angle.

What type of quadrilateral did you draw? How did you make sure that the quadrilateral has 2 lines of symmetry?

What type of triangle did you draw in the flag design? What tool did you use to make sure that the angle you drew measures 45°?



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