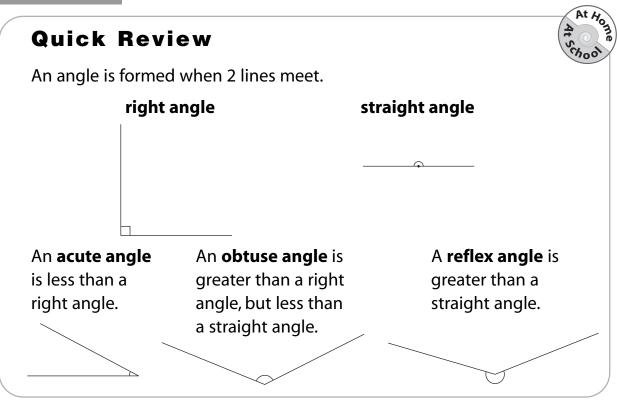
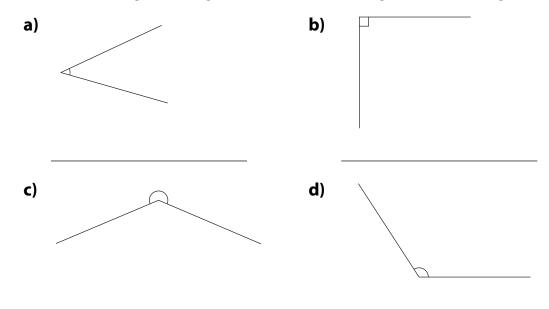


Naming Angles

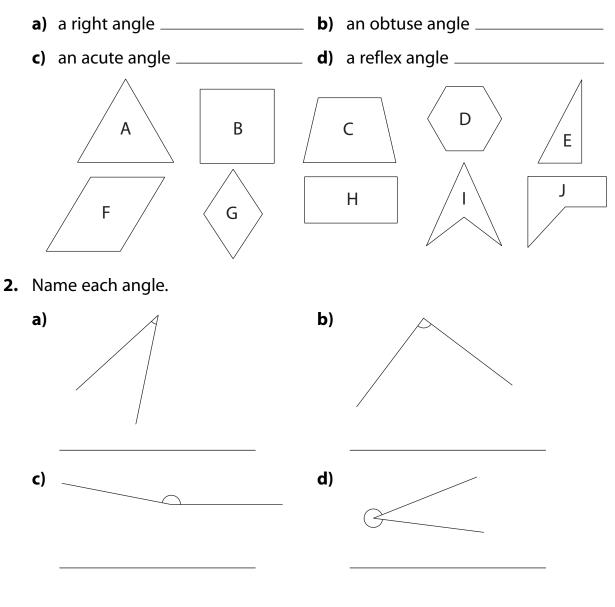


Try These

1. Name each angle as a right, acute, obtuse, straight, or reflex angle.



1. List the shapes with:



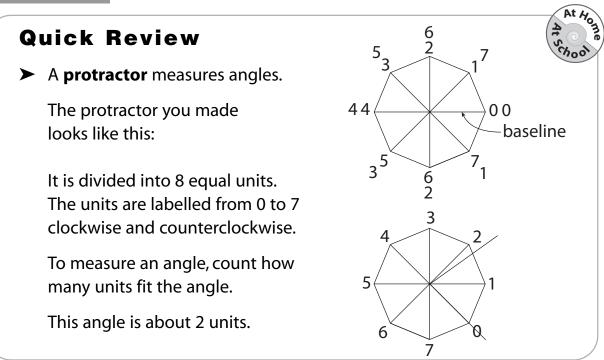
Stretch Your Thinking

Think about the angles formed by the hour hand and the minute hand on a clock. Write a time when the angle is:

a) an acute angle ______
b) an obtuse angle ______
c) a right angle ______
d) a reflex angle ______



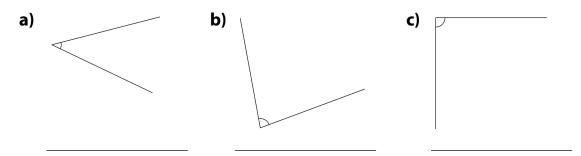
Exploring Angles



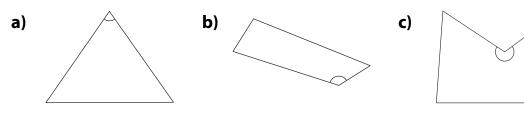
Try These

Use an 8-unit protractor.

1. Use your protractor to measure each angle.

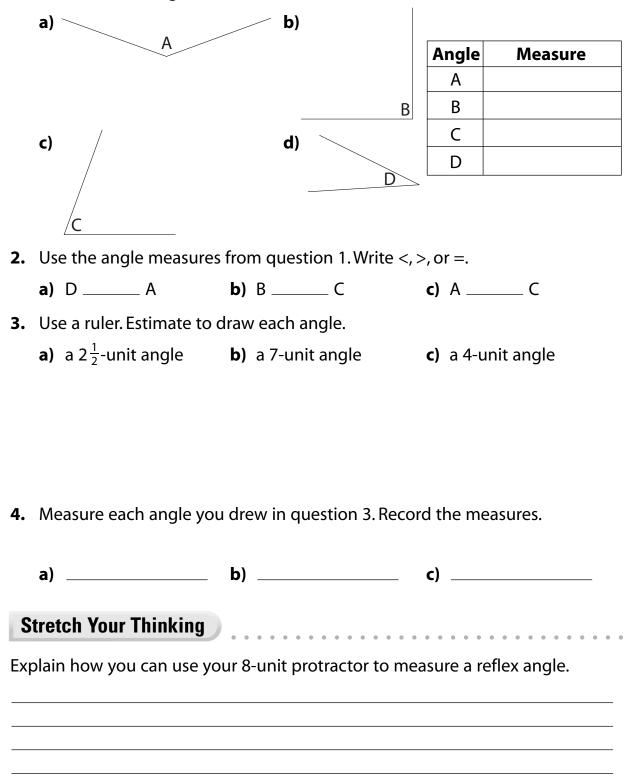


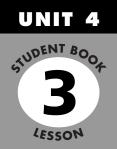
2. Use your protractor to measure the marked angle in each polygon below.



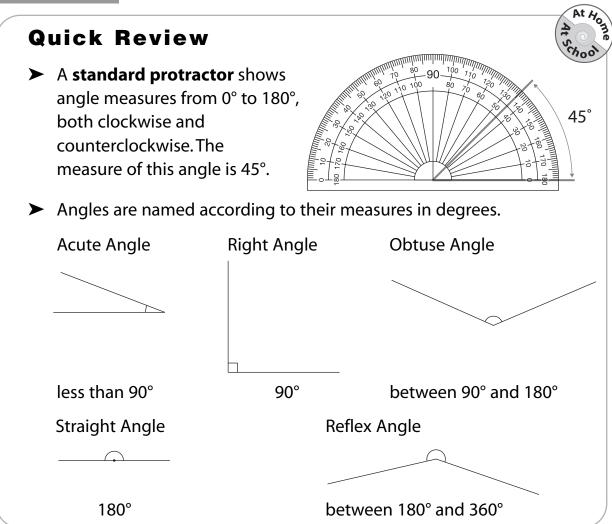
Use an 8-unit protractor.

1. Measure each angle. Record the measurements in the chart.



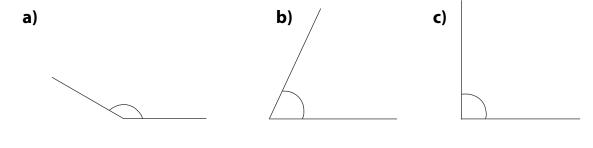


Measuring Angles



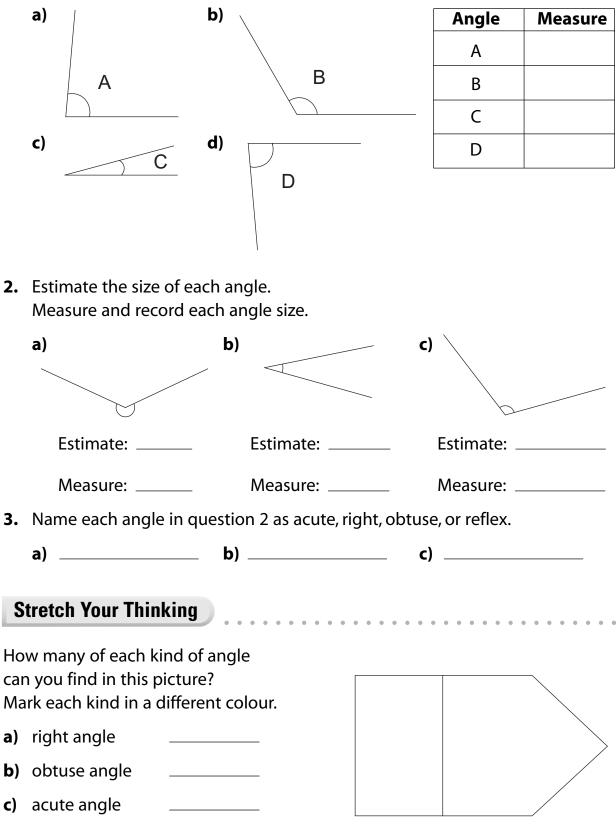
Try These

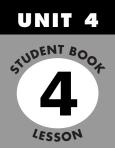
1. Use a protractor to measure each angle. Record the measurements.



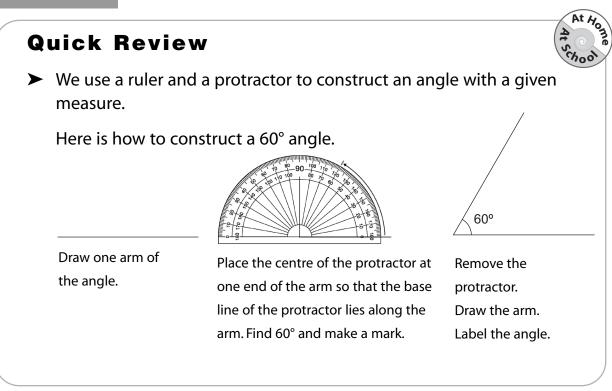
1. Measure each angle. Record the measurements in the chart.

.





Drawing Angles



Try These

- Use a ruler and protractor. Draw an obtuse angle with each measure.
 - **a)** 135° **b)** 100° **c)** 167°

- 2. Use only a ruler. Estimate to draw each angle.
 - **a)** 75° **b)** 145° **c)** 50°

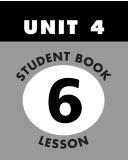
Use a ruler and protractor.
 Draw an acute angle with each measure.

a) 55° b) 20° c) 38°

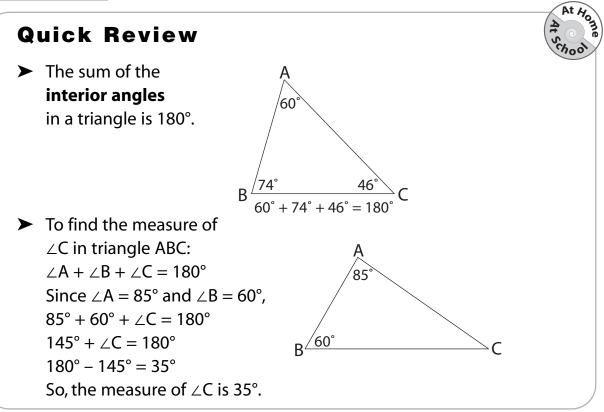
- 2. Use only a ruler. Estimate to draw each angle.
 - **a)** 90° **b)** 80° **c)** 150°

Stretch Your Thinking

Without using a protractor, draw an angle that is close to 45°. Explain how you did it.

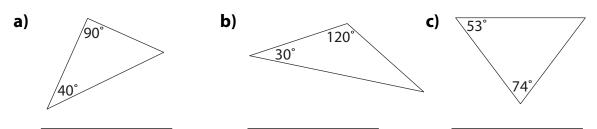


Investigating Angles in a Triangle



Try These

1. Determine the measure of the third angle without measuring.

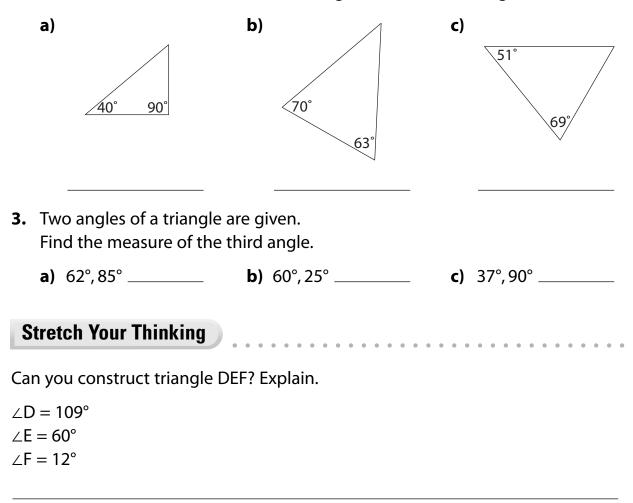


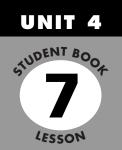
- 2. Two angles of a triangle are given. Find the measure of the third angle. Show your work.
 - **a)** 70°, 60° _____
 - **b)** 25°, 90° _____
 - **c)** 110°, 40° _____

1. Determine if a triangle can be drawn with the angle measures given. If a triangle can be drawn, draw and label it.

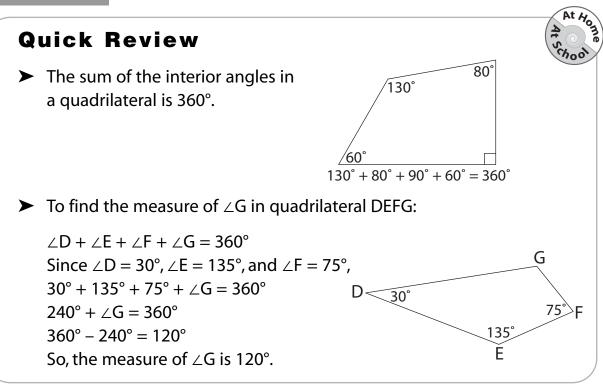
a) 35°, 65°, 8	0° b) 55°, 50°, 50°	c) 45°, 45°, 90°	d) 95°, 45°, 50°
u , 33,03,0			

2. Determine the measure of the third angle without measuring.



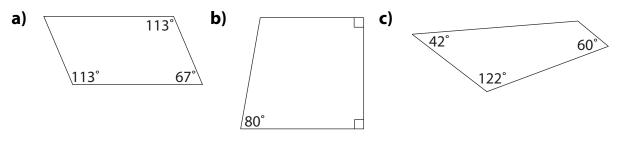


Investigating Angles in a Quadrilateral



Try These

1. Determine the measure of the fourth angle without measuring.



- **2.** Three angles of a quadrilateral are given. Find the measure of the fourth angle.
 - **a)** 25°, 70°, 110° _____ **b)** 42°, 38°, 100° _____
 - **c)** 90°, 90°, 41° _____ **d)** 115°, 95°, 63° _____
 - **e)** 107°, 36°, 49° _____ **f)** 116°, 72°, 49° _____

- **1.** Determine if a quadrilateral can be drawn with the angle measures given. If a quadrilateral can be drawn, draw and label it.
 - **a)** 90°, 75°, 60°, 135° **b)** 50°, 45°, 70°, 120° **c)** 125°, 70°, 85°, 80°

2. Find the measure of the fourth angle in each quadrilateral.

Quadrilateral	∠J	∠K	∠L	∠M
A	149°	80°	26°	
В	120°	75 [°]	97°	
С	76 [°]	75 [°]	84 [°]	
D	150 [°]	100 [°]	70 [°]	
E	37°	83°	151°	

Stretch Your Thinking

Is it possible to make a quadrilateral with 3 obtuse angles and 1 right angle? Explain.