

Name \_\_\_\_\_

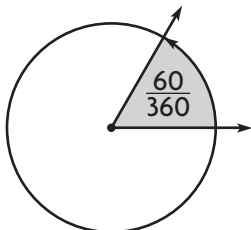
**Degrees**



**COMMON CORE STANDARDS—4.MD.5a, 4.MD.5b** Geometric measurement: understand concepts of angle and measure angles.

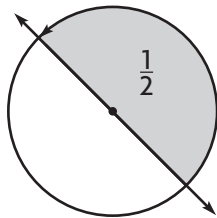
Tell the measure of the angle in degrees.

1.



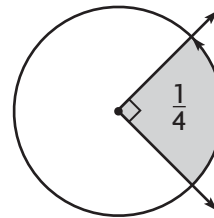
60°

2.



\_\_\_\_\_

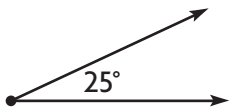
3.



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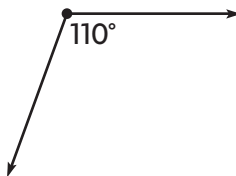
Classify the angle. Write *acute*, *obtuse*, *right*, or *straight*.

4.



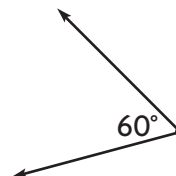
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5.



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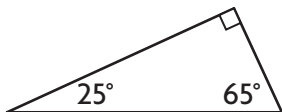
6.



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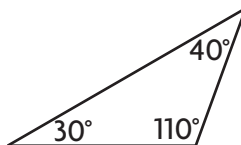
Classify the triangle. Write *acute*, *obtuse*, or *right*.

7.



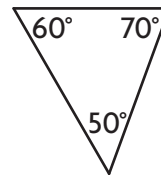
\_\_\_\_\_

8.



\_\_\_\_\_

9.



\_\_\_\_\_

**Problem Solving**



Ann started reading at 4:00 P.M. and finished at 4:20 P.M.

10. Through what fraction of a circle did the minute hand turn?

\_\_\_\_\_

11. How many degrees did the minute hand turn?

\_\_\_\_\_



Start



End

## Lesson Check (4.MD.5a, 4.MD.5b)

1. What kind of angle is shown?
2. How many degrees are in an angle that turns through  $\frac{1}{4}$  of a circle?



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## Spiral Review (4.OA.3, 4.NF.3b, 4.NF.4a, 4.NF.5)

3. Mae bought 15 football cards and 18 baseball cards. She separated them into 3 equal groups. How many sports cards are in each group?
4. Each part of a race is  $\frac{1}{10}$  mile long. Marsha finished 5 parts of the race. How far did Marsha race?
5. Jeff said his city got  $\frac{11}{3}$  inches of snow. Write this fraction as a mixed number.
6. Amy ran  $\frac{3}{4}$  mile. Write the distance Amy ran as a decimal.

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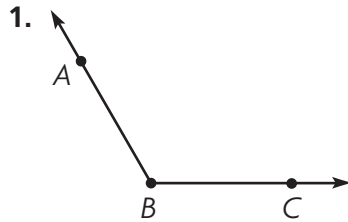
Name \_\_\_\_\_

**Measure and Draw Angles**

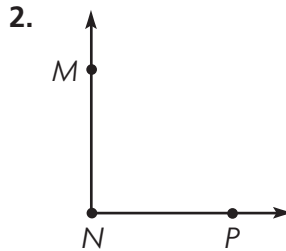


**COMMON CORE STANDARD—4.MD.6**  
 Geometric measurement: understand concepts of angle and measure angles.

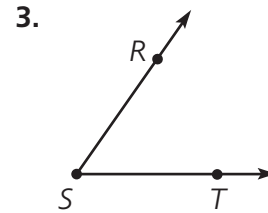
Use a protractor to find the angle measure.



$m\angle ABC = \underline{120^\circ}$



$m\angle MNP = \underline{\hspace{2cm}}$



$m\angle RST = \underline{\hspace{2cm}}$

Use a protractor to draw the angle.

4.  $40^\circ$

5.  $170^\circ$

Draw an example of each. Label the angle with its measure.

6. a right angle

7. an acute angle

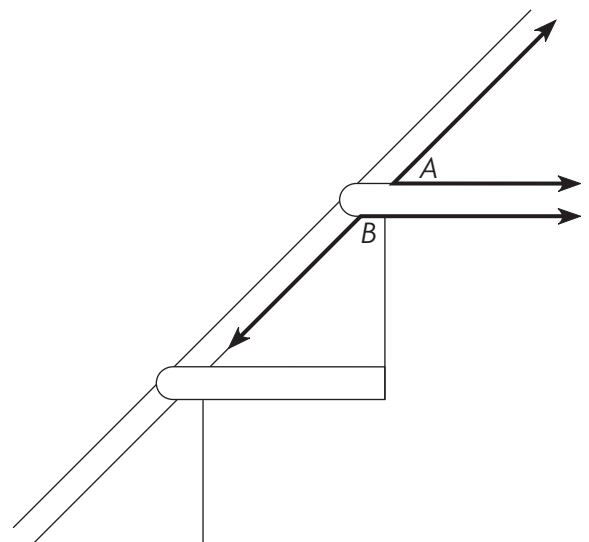
**Problem Solving**



The drawing shows the angles a stair tread makes with a support board along a wall. Use your protractor to measure the angles.

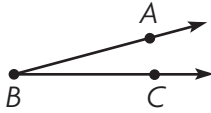
8. What is the measure of  $\angle A$ ? \_\_\_\_\_

9. What is the measure of  $\angle B$ ? \_\_\_\_\_



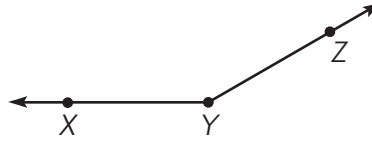
## Lesson Check (4.MD.6)

1. What is the measure of  $\angle ABC$ ?



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2. What is the measure of  $\angle XYZ$ ?



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## Spiral Review (4.NBT.6, 4.NF.3c, 4.MD.5a, 4.G.1)

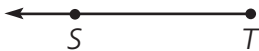
3. Derrick earned \$1,472 during the 4 weeks he had his summer job. If he earned the same amount each week, how much did he earn each week?

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4. Arthur baked  $1\frac{7}{12}$  dozen muffins. Nina baked  $1\frac{1}{12}$  dozen muffins. How many dozen muffins did they bake?

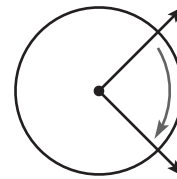
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5. Trisha drew the figure below. What figure did she draw?



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6. Measure and describe the turn shown by the angle. Be sure to tell about the size and direction of the turn.



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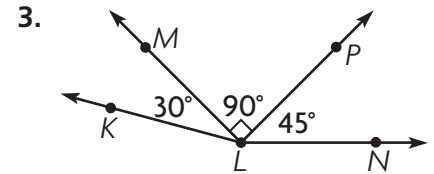
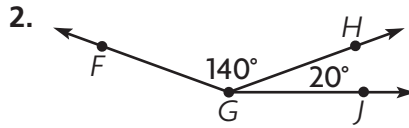
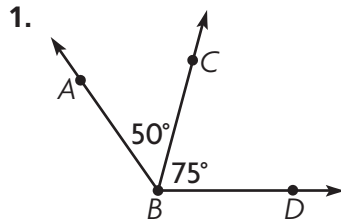
Name \_\_\_\_\_

**Join and Separate Angles**



**COMMON CORE STANDARD—4.MD.7**  
Geometric measurement: understand concepts of angle and measure angles.

Add to find the measure of the angle. Write an equation to record your work.



$50^\circ + 75^\circ = 125^\circ$

$m\angle ABD = 125^\circ$

$m\angle FGJ =$  \_\_\_\_\_

$m\angle KLN =$  \_\_\_\_\_

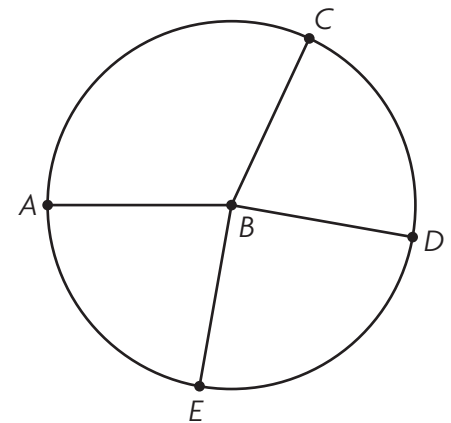
Use a protractor to find the measure of each angle in the circle.

4.  $m\angle ABC =$  \_\_\_\_\_

5.  $m\angle DBE =$  \_\_\_\_\_

6.  $m\angle CBD =$  \_\_\_\_\_

7.  $m\angle EBA =$  \_\_\_\_\_



8. Write the sum of the angle measures as an equation.

\_\_\_\_\_

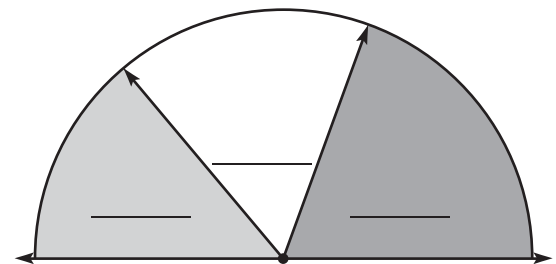
**Problem Solving**

9. Ned made the design at the right. Use a protractor. Find and write the measure of each of the 3 angles.

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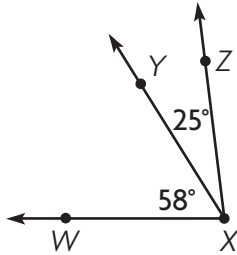
10. Write an equation to find the measure of the total angle.

\_\_\_\_\_



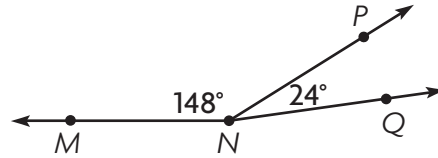
## Lesson Check (4.MD.7)

1. What is the measure of  $\angle WXZ$ ?



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2. Write an equation that you can use to find the  $m\angle MNQ$ .



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## Spiral Review (4.NBT.5, 4.NF.3d, 4.MD.5a, 4.MD.5b, 4.G.2)

3. Joe bought 6 packages of envelopes. Each package contains 125 envelopes. How many envelopes did he buy?
4. Bill hiked  $\frac{3}{10}$  mile on the Lake Trail. Then he hiked  $\frac{5}{10}$  mile on the Rock Trail to get back to where he started. How many miles did he hike?

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5. Ron drew a quadrilateral with 4 right angles and 4 sides with the same length. What figure did he draw?
6. How many degrees are in an angle that turns through  $\frac{3}{4}$  of a circle?

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Name \_\_\_\_\_

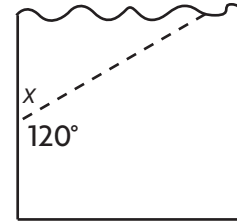
**Problem Solving • Unknown Angle Measures**



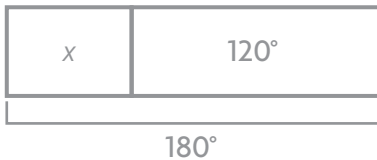
**COMMON CORE STANDARD—4.MD.7**  
Geometric measurement: understand concepts of angle and measure angles.

Solve each problem. Draw a diagram to help.

1. Wayne is building a birdhouse. He is cutting a board as shown. What is the angle measure of the piece left over?



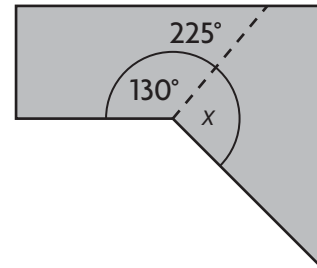
Draw a bar model to represent the problem.



$$\begin{aligned} x + 120^\circ &= 180^\circ \\ x &= 180^\circ - 120^\circ \\ x &= 60^\circ \end{aligned}$$

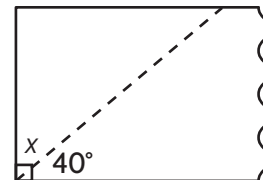
60°

2. An artist is cutting a piece of metal as shown. What is the angle measure of the piece left over?



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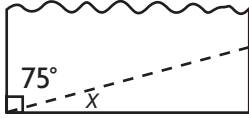
3. Joan has a piece of material for making a costume. She needs to cut it as shown. What is the angle measure of the piece left over?



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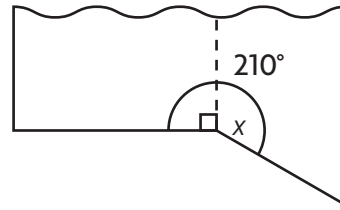
## Lesson Check (4.MD.7)

1. Angelo cuts a triangle from a sheet of paper as shown. What is the measure of  $\angle x$  in the triangle?




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2. Cindy cuts a piece of wood as shown. What is the angle measure of the piece left over?




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## Spiral Review (4.OA.3, 4.NF.2, 4.NF.6, 4.MD.7)

3. Tyrone worked 21 days last month. He earned \$79 each day. How much did Tyrone earn last month?
4. Meg inline skated for  $\frac{7}{10}$  mile. Write this distance as a decimal.

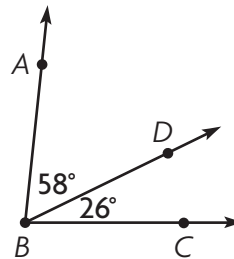
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5. Kerry ran  $\frac{3}{4}$  mile. Sherrie ran  $\frac{1}{2}$  mile. Marcie ran  $\frac{2}{3}$  mile. List the friends in order from who ran the least distance to who ran the greatest distance.

6. What is the measure of  $\angle ABC$ ?




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