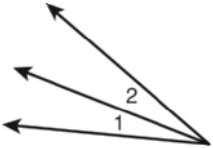
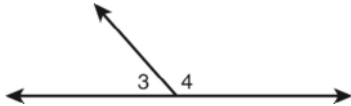



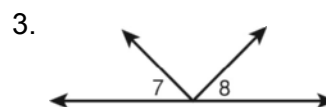
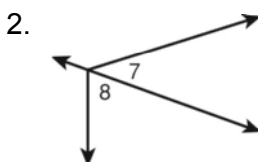
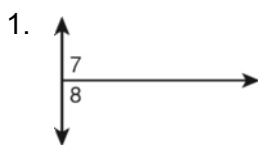
**LESSON**
**1-4**

# Reteach

## Pairs of Angles

Angle Pairs		
Adjacent Angles	Linear Pairs	Vertical Angles
have the same vertex and share a common side	adjacent angles whose noncommon sides are opposite rays	nonadjacent angles formed by two intersecting lines
 <p><math>\angle 1</math> and <math>\angle 2</math> are adjacent.</p>	 <p><math>\angle 3</math> and <math>\angle 4</math> are adjacent and form a linear pair.</p>	 <p><math>\angle 5</math> and <math>\angle 6</math> are vertical angles.</p>

Tell whether  $\angle 7$  and  $\angle 8$  in each figure are only adjacent, are adjacent and form a linear pair, or are not adjacent.



\_\_\_\_\_

\_\_\_\_\_

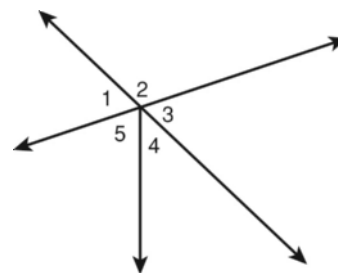
\_\_\_\_\_

Tell whether the indicated angles are only adjacent, are adjacent and form a linear pair, or are not adjacent.

4.  $\angle 5$  and  $\angle 4$  \_\_\_\_\_

5.  $\angle 1$  and  $\angle 4$  \_\_\_\_\_

6.  $\angle 2$  and  $\angle 3$  \_\_\_\_\_

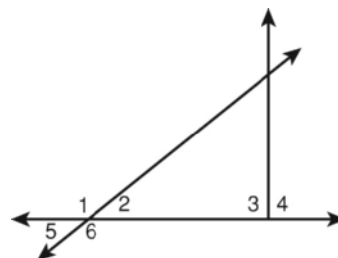


Name each of the following.

7. a pair of vertical angles \_\_\_\_\_

8. a linear pair \_\_\_\_\_

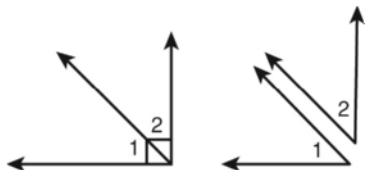

9. an angle adjacent to  $\angle 4$  \_\_\_\_\_



**LESSON**
**1-4**

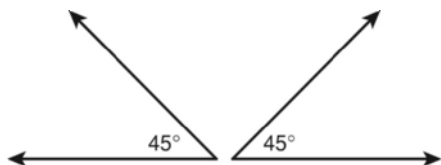
# Reteach

## *Pairs of Angles continued*

Angle Pairs	
Complementary Angles	Supplementary Angles
sum of angle measures is $90^\circ$	sum of angle measures is $180^\circ$
 <p><math>m\angle 1 + m\angle 2 = 90^\circ</math></p> <p>In each pair, <math>\angle 1</math> and <math>\angle 2</math> are complementary.</p>	 <p><math>m\angle 3 + m\angle 4 = 180^\circ</math></p> <p>In each pair, <math>\angle 3</math> and <math>\angle 4</math> are supplementary.</p>

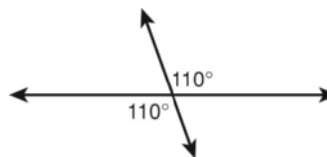
Tell whether each pair of labeled angles is complementary, supplementary, or neither.

10.



\_\_\_\_\_

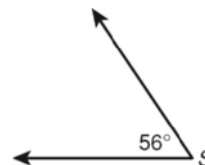
11.

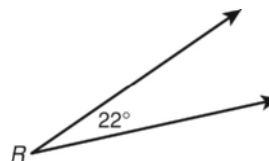


\_\_\_\_\_

Find the measure of each of the following angles.

12. complement of  $\angle S$  \_\_\_\_\_

13. supplement of  $\angle S$  \_\_\_\_\_

14. complement of  $\angle R$  \_\_\_\_\_

15. supplement of  $\angle R$  \_\_\_\_\_


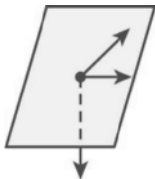
16.  $\angle LMN$  and  $\angle UVW$  are complementary. Find the measure of each angle if  $m\angle LMN = (3x + 5)^\circ$  and  $m\angle UVW = 2x^\circ$ .

\_\_\_\_\_

4. The measures of the vertical angles are equal.
5. If  $m\angle X + m\angle Y = 90^\circ$  and  $m\angle Z + m\angle Y = 90^\circ$ , then  $m\angle X$  and  $m\angle Z$  are both equal to  $90^\circ - m\angle Y$ . So  $m\angle X = m\angle Z$ . Two angles whose measures are equal are congruent.

6. Possible answer:  $\angle ADB$  and  $\angle ADC$

7.



8.  $60^\circ$

9.  $45^\circ$

10.  $72^\circ$

### Reteach

1. adjacent and form a linear pair
2. only adjacent
3. not adjacent
4. only adjacent
5. not adjacent
6. adjacent and form a linear pair
7. Possible answers:  $\angle 1$  and  $\angle 6$ ,  $\angle 2$  and  $\angle 5$
8. Possible answers:  $\angle 1$  and  $\angle 2$ ;  $\angle 1$  and  $\angle 5$ ;  $\angle 5$  and  $\angle 6$ ;  $\angle 6$  and  $\angle 2$
9.  $\angle 3$
10. complementary
11. neither
12.  $34^\circ$
13.  $124^\circ$
14.  $68^\circ$
15.  $158^\circ$
16.  $m\angle LMN = 56^\circ$ ;  $m\angle UVW = 34^\circ$

### Challenge

1.  $52^\circ 14' 24''$
2.  $5^\circ 12'$
3.  $27^\circ 37' 30''$
4.  $64^\circ 48'$
5. Sample answer:  $\angle KLM$  and  $\angle MLN$
6. Sample answer:  $\angle K LH$  and  $\angle MLN$
7.  $180 - (3x + 2)^\circ$  or  $(178 - 3x)^\circ$
8. Sample answer:  $\angle HCK$  and  $\angle RCQ$

### Problem Solving

1. Sample answer:  $\angle ALB$  and  $\angle BLC$
2. Sample answer:  $\angle AML$  and  $\angle YML$
3.  $45^\circ$ ; they are vertical angles.
4.  $45^\circ$ ; the angles are supplementary.

5. Sample answer:  $\angle ABM$ ,  $\angle MBK$ , and  $\angle KBC$

6. C

7. G

8. A

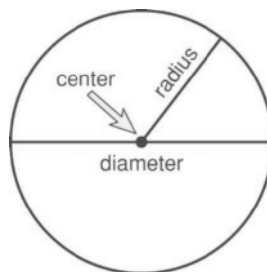
### Reading Strategies

1. complementary
2. vertical
3. supplementary
4. linear or supplementary
5. adjacent
6. complementary

### LESSON 1-5

#### Practice A

1. side lengths
2.  $P = 2\ell + 2w$
3. area
4.  $A = \frac{1}{2}bh$
5. 30 yd
6.  $54 \text{ yd}^2$
7. 24 cm
8.  $24 \text{ cm}^2$
9. diameter
10. center
11. twice
- 12.



13.  $A = \pi r^2$
14. around
15.  $C = 2\pi r$  or  $C = \pi d$

#### Practice B

1. 12 ft
2.  $6 \text{ ft}^2$
3. 2.4 ft or  $2\frac{2}{5} \text{ ft}$
4.  $P = 9.6 \text{ m}$ ;  $A = 5.76 \text{ m}^2$
5.  $P = 2x + 20$ ;  $A = 7x + 21$
6. circumference
7.  $C \approx 44 \text{ mi}$ ;  $A \approx 154 \text{ mi}^2$
8.  $C \approx 9.42 \text{ cm}$ ;  $A \approx 7.065 \text{ cm}^2$
9.  $C \approx 2\pi(x + 1)$ ;  $A \approx \pi(x^2 + 2x + 1)$
10. 2 in.
11. 19 m