

Name \_\_\_\_\_ Date \_\_\_\_\_



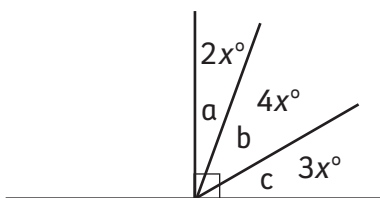
### Skills Maintenance

#### Missing Angles

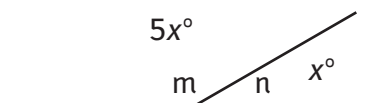
#### Activity 1

Use your knowledge of angles, properties, and algebraic expressions to find the missing angles.

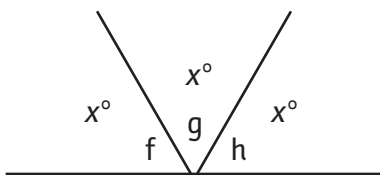
1. What is the measure of angle  $a$ ? \_\_\_\_\_



2. What is the measure of angle  $m$ ? \_\_\_\_\_



3. What is the measure of angle  $h$ ? \_\_\_\_\_





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## Apply Skills

### Writing Equations From Words

#### Activity 1

Write algebraic expressions for each of the word statements. Use any of the four operations or inequality signs to write your expressions.

1. three times a number \_\_\_\_\_
2. three more than a number \_\_\_\_\_
3. a number less than 3 \_\_\_\_\_
4. three times the sum of 3 and a number \_\_\_\_\_
5. a number more than 3 \_\_\_\_\_

#### Activity 2

Write algebraic equations for each of the word statements. Then solve them.

1. Three times a number equals 180.  
Equation \_\_\_\_\_  
Solve \_\_\_\_\_
2. A number minus four equals twelve.  
Equation \_\_\_\_\_  
Solve \_\_\_\_\_
3. Two times a number equals negative ten.  
Equation \_\_\_\_\_  
Solve \_\_\_\_\_
4. A number minus negative three equals negative seven.  
Equation \_\_\_\_\_  
Solve \_\_\_\_\_

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### Problem-Solving Activity

#### Word Problems and Algebra

Translate each word problem into an algebraic expression and solve.

1. John makes three times as much as Allen per hour. Allen makes \$7 per hour. How much does John make?  
\_\_\_\_\_
  
2. Randy’s pet store carries two times less feed brands than Mandy’s store. Randy has 14 kinds of feed. How many kinds does Mandy carry?  
\_\_\_\_\_
  
3. Rich can run three times as far as Mike in 4 hours. Rich can run 12 miles. How far can Mike run?  
\_\_\_\_\_
  
4. Lulu goes to the movie theater 17 times per month. Her friend Sarah goes to the movie theater 16 less time a month than Lulu. How many times does Sarah go to the movie theater per month?  
\_\_\_\_\_
  
5. Train trips that go from the East Coast to the middle of the country can take a long time because of delays. A recent trip averaged 45 miles per hour, and it traveled 900 miles. How long did this trip take?  
\_\_\_\_\_
  
6. Your friend and you are racing to see who can drive the 730 miles from Boston, Massachusetts, to Raleigh, North Carolina, first. It takes you 15 hours to get there. Your friend gets to Raleigh twice as fast. How long does it take your friend to get to Raleigh?  
\_\_\_\_\_



#### Reinforce Understanding

Use the *mBook Study Guide* to review lesson concepts.