

Name _____ Date _____



Skills Maintenance

Distributive Property

Activity 1

Solve the equations using the distributive property. Be sure to show your work and check your answers.

1. $2(-x - 4) = 16$

Show your work here:

$x =$ _____

Check your work here:

2. $-x(3 + 4) = 14$

Show your work here:

$x =$ _____

Check your work here:

Activity 2

Solve the multiplication problems with fractions.

1. $\frac{1}{3} \cdot 3 =$ _____

2. $\frac{3}{5} \cdot$ _____ $= 1$

3. $\frac{4}{5} \cdot \frac{5}{4} =$ _____

4. $1 = \frac{2}{3} \cdot$ _____

5. _____ $\cdot \frac{1}{3} = 1$

6. $\frac{1}{2} \cdot$ _____ $= 1$

7. $8 \cdot$ _____ $= 1$

8. $\frac{11}{12} \cdot \frac{12}{11} =$ _____

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**Apply Skills****Flexibility and the Distributive Property****Activity 1****Solve the equations. Show your work and check your answers.**

1. $-2(3 + x) = 12$

Show your work here:

$x = \underline{\hspace{2cm}}$

Check your work here:

2. $3(-z - 1) = -12$

Show your work here:

$z = \underline{\hspace{2cm}}$

Check your work here:

3. $4(y - 1) = 16$

Show your work here:

$y = \underline{\hspace{2cm}}$

Check your work here:

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Activity 2

For each of the problems on the previous page, select a different strategy to solve the equations again. Explain how the steps are different.

1. Solve $-2(3 + x) = 12$ in a different way than you solved it in Activity 1.

Show your work here:

$x =$ _____

Check your work here:

Tell how the steps are different:

2. Solve $-3(z + 3) = -12$ in a different way than you solved it in Activity 1.

Show your work here:

$z =$ _____

Check your work here:

Tell how the steps are different:

3. Solve $4(y - 1) = 16$ using a different method.


Show your work here:

$y =$ _____

Check your work here:

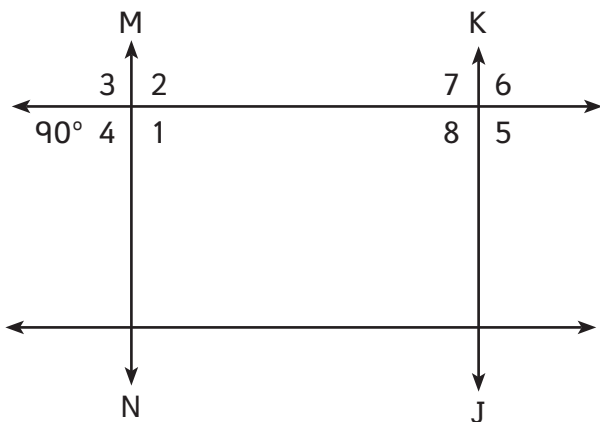
Tell how the steps are different:

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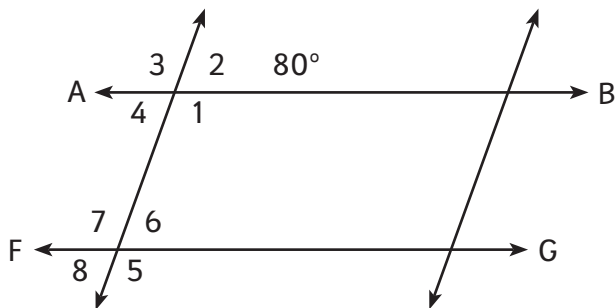
 **Problem-Solving Activity**
Angles and Parallel Lines

Use what you have learned about vertical angles and corresponding angles to solve the problems. All lines in the problems are parallel.

1. What is the measure of $\angle 6$? _____



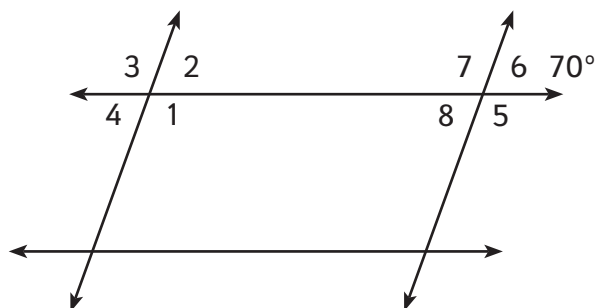
2. What is the measure of $\angle 8$? _____



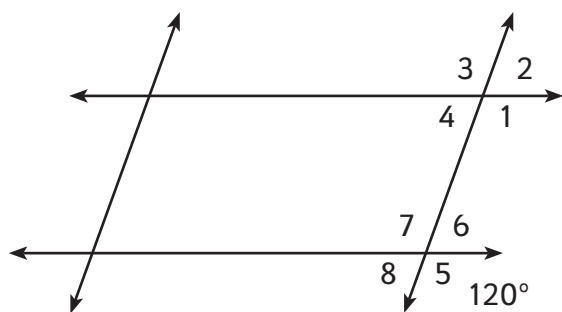
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3. What is the measure of $\angle 2$? _____



4. What is the measure of $\angle 3$? _____



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