

Name _____ Date _____

**Skills Maintenance****Solving Complex Equations****Activity 1**

Solve the equations. Be sure to simplify first. Check your answers when you are done.

1. $-5x + 7 + -4x + 2 = 18$

Show your work here:

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

Check your work here:

$5 + 7 + 4 + 2 = 18$

2. $-35 = 3x + -x - 65 - 5 + 5x$

Show your work here:

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

Check your work here:

$-35 = 15 + -5 - 65 - 5 + 25$

Name _____ Date _____



Apply Skills

Fractions as Coefficients

Activity 1

Solve the equations that have fractions as coefficients.

1. $\frac{1}{2}x + 34 = 48$

Show your work here:

$x =$ _____

Check your work here:

2. $\frac{1}{3}(x + 3) = 9$

Show your work here:

$x =$ _____

Check your work here:

3. $40 = \frac{2}{3}x + -34$

Show your work here:


$x =$ _____

Check your work here:

Name _____ Date _____

 **Problem-Solving Activity**
Making Inferences in Geometry

Use what you know about the measure of angles, shapes, and the rules and properties described below to solve the problems.

Right angles— this symbols shows that an angle is always a right angle. The measure of a right angle is 90° .

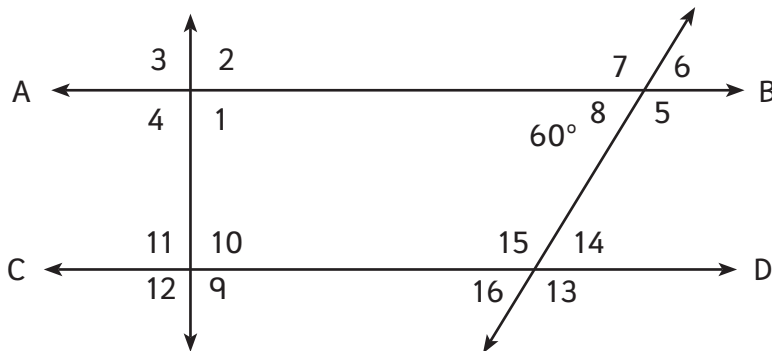
Supplementary angles—When you combine two angles to form a straight line, you have supplementary angles. A straight line measures 180° .

Vertical angles rule—These are two angles whose sides are opposite rays. Vertical angles have equal measurement.

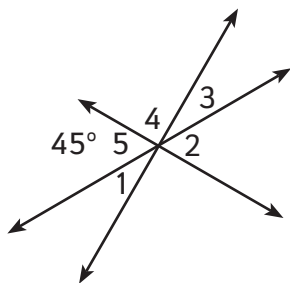
Corresponding angle rule—When parallel lines are crossed by a transversal, corresponding angles have equal measurement.

Transitive property—This is a property that shows relationships between quantities. If $A = B$ and $B = C$, then $A = C$.

1. Find the measure of $\angle 15$. _____



2. Find the measure of $\angle 2$. _____

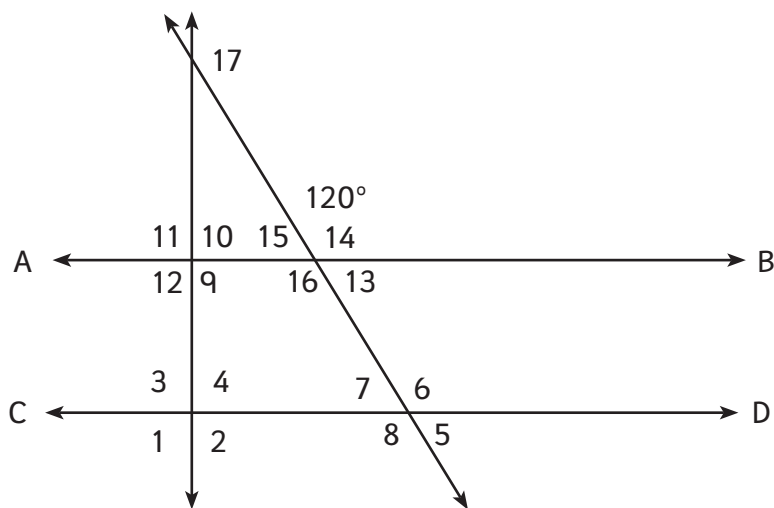


Lesson 12 | Problem-Solving Activity

Name _____ Date _____

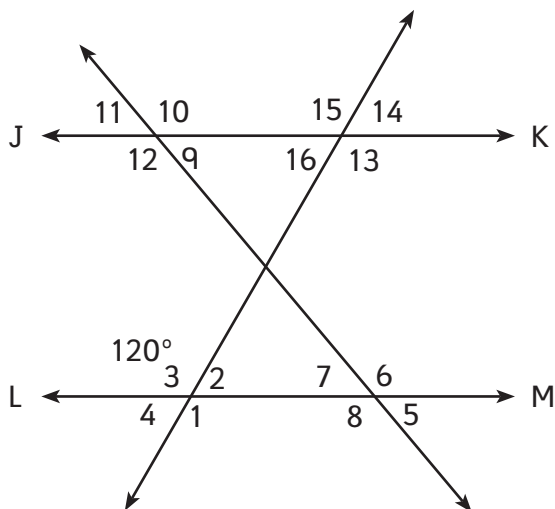
3. Find the measure of $\angle 16$. _____

Lines AB and CD are parallel



4. Find the measure of $\angle 14$. _____

Lines JK and LM are parallel



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