Name	Date



Skills Maintenance

Solving Complex Equations

Activity 1

Solve the equations. Be sure to simplify first, and then solve the simplified equation. Check your answers when you are done.

1. 4x - 2 + 6 - 5x = 10 + -3 + 2x x =_____

Show your work here:

Check your work here:

5 + -6 - 3x = 10x + 15 + 3x x = _____
Show your work here:

Check your work here:

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<u> </u>	Jnit Review Solving Different Kinds of Algebraic Activity 1	Expressions	
	ve the algebraic expressions. Some pr iables. Show all of your work.	oblems involv	e fractions with
1.	4 <i>x</i> + 5 = 65 <i>x</i> =	2.	-3 <i>x</i> - 7 = 20 <i>x</i> =
	Show your work here:		Show your work here
	Check your answer here:		Check your work her

Show your work here:

Check your work here:

Check your work here:

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5. $\frac{x}{2} + 1 = 9 \ x =$ _____ Show your work here: **6**. $-\frac{x}{2} + 1 = 9 \ x =$ _____ Show your work here:

Check your work here:

Check your work here:

7. $9x - 3 = 15 \ x =$ ______ Show your work here:

8. 3x - 5 = -23 x = _____
 Show your work here:

Check your work here:

Check your work here:

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Activity 2

Solve the algebra word problems. Write an equation with a variable for each problem. Draw a picture if you need to.

1. Two numbers add up to 80. The larger number is three times greater than the smaller number. What are the two numbers?

2. Two cars are traveling across the Nevada desert on the same road. They are driving toward each other. One car starts in Reno driving at 50 miles per hour. The other car starts in Las Vegas driving at 60 miles per hour. It is about 440 miles between the two cities. How long until they meet? _____

3. Howard, Jamal, and Michael are brothers. Howard is the youngest. Michael is the oldest. Jamal is 3 years older than Howard. Michael is 7 years older than Howard. Their combined ages are 40. How old is each brother?

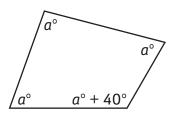
Name	Date

Unit Review Lines and Angles

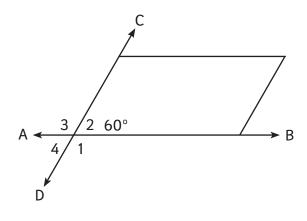
Activity 1

Find the measurement of each angle in the quadrilaterals.

1. *a* = _____



2. What are the measures of $\angle 1$, $\angle 3$, and $\angle 4$?

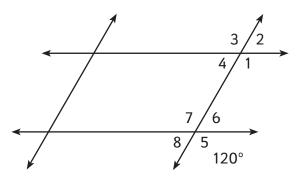


What rules or properties did you use to find the angle measurements?

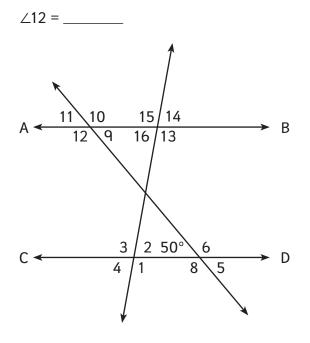
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3. What is the measure of $\angle 4$?



4. Find the measure of $\angle 12$. Lines AB and CD are parallel.



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