## G3-N3-Lesson 8

## 1. Solve.

a. 
$$9 - (6 + 3) = 0$$

I know the parentheses mean that I have to add 6 + 3 first. Then I can subtract that sum from 9.

b. 
$$(9-6)+3=\underline{6}$$

I know the parentheses mean that I have to subtract 9-6 first. Then I can add 3. The numbers in parts (a) and (b) are the same, but the answers are different because of where the parentheses are placed.

## 2. Use parentheses to make the equations true.

a. 
$$13 = 3 + (5 \times 2)$$

I can put parentheses around  $5 \times 2$ . That means I first multiply  $5 \times 2$ , which equals 10, and then add 3 to get 13.

b. 
$$16 = (3+5) \times 2$$

I can put parentheses around 3 + 5. That means I first add 3 + 5, which equals 8, and then multiply by 2 to get 16.

## 3. Determine if the equation is true or false.

a.	$(4+5)\times 2=18$	True
b.	$5 = 3 + (12 \div 3)$	False

I know part (a) is true because I can add 4 + 5, which equals 9. Then I can multiply  $9 \times 2$  to get 18.

I know part (b) is false because I can divide 12 by 3, which equals 4. Then I can add 4 + 3. 4 + 3 equals 7, not 5.

4. Julie says that the answer to 16+10-3 is 23 no matter where she puts the parentheses. Do you agree?

$$(16+10)-3=23$$

$$16 + (10 - 3) = 23$$

I agree with Julie. I put parentheses around 16+10, and when I solved the equation, I got 23 because 26-3=23. Then I moved the parentheses and put them around 10-3. When I subtracted 10-3 first, I still got 23 because 16+7=23. Even though I moved the parentheses, the answer didn't change!