

Teacher instructions:

Objective: The student will write the problem out so they have a conceptual understanding of the distributive property.

On the right side of the paper write what is in the parentheses the number of times you are told by the number on the outside.

Ex. $2(x+7)$

$$\begin{array}{r} x + 7 \\ \underline{x + 7} \\ 2x + 14 \end{array}$$

Once the students have written the problem out the long way, have them fold the paper on the line and use the distributive property to work the problems on the left.

Open the paper to check your work.

Then give the Learn Check to check for understanding.

1. $2(x+4)$

2. $4(x+3)$

3. $3(2x+6)$

4. $2(2x+y)$

5. $4(3x+4)$

6. $4(x+7)$

7. $3(2x+y+6)$

8. $2(x-8)$

9. $3(12+2y+x)$

10. $4(x+2y-2)$

1. $2(x+4)$	$ \begin{array}{r} x + 4 \\ \underline{x + 4} \\ 2x + 8 \end{array} $
2. $4(x+3)$	$ \begin{array}{r} x + 3 \\ x + 3 \\ x + 3 \\ \underline{x + 3} \\ 4x + 12 \end{array} $
3. $3(2x+6)$	$ \begin{array}{r} 2x + 6 \quad x + x + 6 \\ 2x + 6 \quad x + x + 6 \\ \underline{2x + 6 \quad x + x + 6} \\ 6x + 18 \quad 6x + 18 \end{array} $
4. $2(2x+y)$	$ \begin{array}{r} 2x + y \quad x + x + y \\ \underline{2x + y \quad x + x + y} \\ 4x + 2y \quad 4x + 2y \end{array} $
5. $4(3x+4)$	$ \begin{array}{r} 3x + 4 \quad x + x + x + 4 \\ 3x + 4 \quad x + x + x + 4 \\ 3x + 4 \quad x + x + x + 4 \\ \underline{3x + 4 \quad x + x + x + 4} \\ 12x + 16 \quad 12x + 16 \end{array} $

$$6. \quad 4(x+7)$$

$$x + 7$$

$$x + 7$$

$$x + 7$$

$$\underline{x + 7}$$

$$4x + 28$$

$$7. \quad 3(2x+y+6)$$

$$2x + y + 6$$

$$x + x + y + 6$$

$$2x + y + 6$$

$$x + x + y + 6$$

$$\underline{2x + y + 6}$$

$$\underline{x + x + y + 6}$$

$$6x + 3y + 18$$

$$6x + 3y + 18$$

$$8. \quad 2(x-8)$$

$$x - 8$$

$$\underline{x - 8}$$

$$2x - 16$$

$$9. \quad 3(12+2y+x)$$

$$12 + 2y + x$$

$$12 + y + y + x$$

$$12 + 2y + x$$

$$12 + y + y + x$$

$$\underline{12 + 2y + x}$$

$$\underline{12 + y + y + x}$$

$$36+6y+3x$$

$$36+6y+3x$$

$$10. \quad 4(x+2y-2)$$

$$x + 2y - 2$$

$$x + y + y - 2$$

$$x + 2y - 2$$

$$x + y + y - 2$$

$$x + 2y - 2$$

$$x + y + y - 2$$

$$\underline{x + 2y - 2}$$

$$\underline{x + y + y - 2}$$

$$4x + 8y - 8$$

$$4x + 8y - 8$$