

Practice Test:

name \_\_\_\_\_

Thinking backwards, solving for x, distribution, and unsmoothing numbers

1. A cake was cut into pieces.  
The first person took three pieces.  
The second person took half of the remaining pieces.  
The third person took 1 piece.  
After this, there were 6 pieces of cake remaining.  
How many pieces was the cake originally cut into?

Rewrite each of these expressions so there are no more parentheses:

2.  $2(x + 4)$

3.  $x(2 - y)$

3.  $2x(y - 2.4)$

Solve for x. Show each step on the way to finding the answer!

4.  $4x - 1.5 = 7.1$

5.  $2(x - 9) = -4$

5.  $\frac{3-x}{-2} = 4$