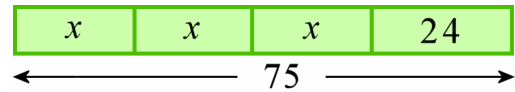


# More Equations

Think of this bar model as being a board of a certain length. We can write an equation about it. Notice, its TOTAL length is 75. All those “blocks” added together equal 75:



$$x + x + x + 24 = 75$$

Then,  $x + x + x$  is the same as  $3x$  or 3 times  $x$ . We omit the multiplication sign between a number and a letter. So, the equation can also be written as

$$3x + 24 = 75.$$

How can you solve it?

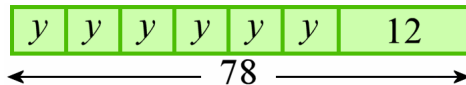
Take away the block with 24. Then, the total for the 3  $x$ 's must be 51 (because  $75 - 24 = 51$ ). Then you just have to find a number so that 3 times the number is 51. Guess and check!

1. Match one equation with each bar model. Then, solve for  $y$ .

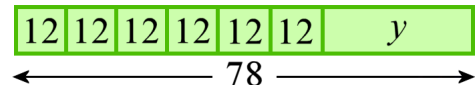
Equations:

$$6y + 12 = 78$$

$$6 \times 12 + y = 78$$

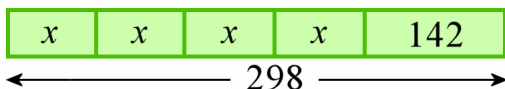


a.

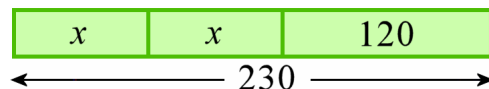


b.

2. Write an equation for each bar model. Then, solve for  $x$ .



a.



b.