

# Linear Equation Word Problems

## (one-step)



Level 1 - Create an equation and solve for the variable using one step

Level 2 - Create an equation and solve for the variable using two steps

Word problems are short stories about unknown numbers. We need to translate the words into “math” so we can solve for the unknown numbers.

### Method:

**Step 1:** name the unknown with a variable.

Let “x” be...what is the question asking for.

**Step 2:** translate the story into an equation.

<b>Examples:</b>	
<b>Addition</b>	add, plus, sum, total of, combined, together, increased by, more than
<b>Subtraction</b>	subtract, minus, difference, decreased by, take away, fewer than, less than, remaining, left
<b>Multiplication</b>	times, product, of, per, each, rate of, groups of, twice, triple
<b>Division</b>	divide, quotient, split equally, shared equally, out of, ratio of
<b>Exponents</b>	squared, cubed, to the power of, raised to
<b>Roots</b>	square root of, cube root of, radical, root of

**Step 3:** solve the equation and label your answer with units if necessary.

### **Example:**

Billy has some money in his bank account. He triples his money and then is given \$30. If he now has \$60, how much did he have in his account to begin with?

### **Solution:**

Let x be the amount of money he initially has in his account.

$$3x + 30 = 60$$

$$3x = 30$$

$$x = \$10$$