



I can... translate between sentences and equations.

Remember.....

Addition: *Sum*
+

Subtraction:

Multiplication:

Division: *quotient*

Section 2.1 adds Equals to the mix!

Equal:

total
 IS
 equals
 are
 same as

results in
 outcome

()
 quantity ...
 all

Words to Numbers

Translate this sentence into an equation.

1. A number b divided by three is equal to six less than c .

$$\frac{b}{3} = c - 6$$

Translate this sentence into an equation.

White Boards

2. Fifteen more than z times six is y times two minus eleven.

$$15 + 6z = 2y - 11$$

3. A number c multiplied by six is equal to two more than d .

$$6c = 2 + d$$

4. Three less than a number a divided by four is seven more than 3 times b .

$$\frac{a}{4} - 3 = 7 + 3b$$

5. **JELLY BEANS** A jelly bean manufacturer produces 1,250,000 jelly beans per hour. How many hours does it take them to produce 10,000,000 jelly beans?

First write an equation:

Words

x is hours



$$1,250,000x = 10,000,000$$

Variables



$$x = 8 \text{ hours}$$

Equation

Answer the question by guess and check!

6. A person at the KeyTronic World Invitational Type-Off typed 148 words per minute. How many minutes would it take to type 3552 words?

q is for minutes

$$148q = 3552$$

It would take 24 minutes.

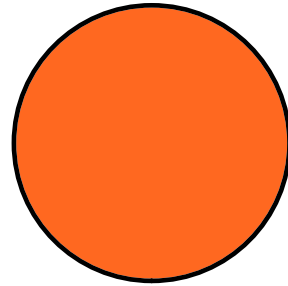
Words to Formulas

7. **GEOMETRY** Translate the sentence into a formula. The perimeter of a square equals four times the length of a side. If the length of the square is 3 meters what is the perimeter?

p is perimeter
 l is length

$$p = 4L$$
$$p = 4(3)$$
$$12m$$

8. Translate the sentence into a formula. The area of a circle equals the product of π and the square of the radius r . If the radius is 26 cm what is the area of the circle?



Numbers to Words

9. Translate the equation into a verbal sentence.

$$12 - 2x = -5$$

White Boards

Translate the equation into a verbal sentence.

10. $\frac{12}{b} - 4 = -1$

11. $5a = b^2 + 1$

12. $a^2 + 3b = \frac{c}{6}$

Numbers to Word Problems

Write a problem based on the given information.

$f = \text{cost of fries}$

$f + 1.50 = \text{cost of burger}$

$4(f + 1.50) + f = 8.25$

The cost of burger is \$1.50 more than fries. If 4 burgers and a fry is \$8.25, how much are fries?

14. Write a problem based on the given information.

h = Tiana's height in inches

$h - 3$ = Consuelo's height in inches

$$3h(h - 3) = 8262$$

front load 2.2

Keep your equations BALANCED!

Keep fractions as fractions unless they reduce.

List a properties for each step of solving.

$$\begin{array}{r} 27 + k = 30 \\ -27 \quad \quad -27 \\ \hline k = 3 \end{array}$$

Additive Inverse

$$\begin{array}{c} \text{mix} \\ \frac{2}{3} q = \frac{1}{2} \cdot \frac{3}{4} \\ \hline 2 = \frac{3}{4} \end{array}$$

What can you
multiply a number by
to get to 1?

Hint think Properties

Homework 2.1

Pg. 78-79

#21-45o

Front Load 2.2

Pg. 86

#1-15

