

1.4 Equations

Sept 18, 2006

- Equations: a statement formed by placing an equal sign (=) between two Expressions.

* It has an equal Sign!

An Equation has a Left & Right Side
equation Because it has an(=)

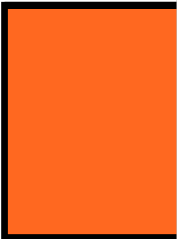
$$\underbrace{4x + 1}_{\text{Left Side}} = \underbrace{9}_{\text{Right Side}}$$

-Solution: the number that
replaces the Variable to Make
the Equation True.



$$4x + 1 = 9$$

2 is the Solution



Check if 2 + 3 are solutions
for $4x + 1 = 13$

(1st) Try 2: $4x + 1 = 13 \rightarrow \text{exp.}$

$$4(\underline{2}) + 1 \stackrel{?}{=} 13 \rightarrow \text{sub.}$$

$$\underline{8} + 1 \stackrel{?}{=} 13$$

$$9 \neq 13$$

False...
2 is Not A Solution

try 3: $4x + 1 = 13$

$$4(\underline{3}) + 1 \stackrel{?}{=} 13$$

$$\underline{12} + 1 \stackrel{?}{=} 13$$

$$13 = 13 \checkmark$$

True...
3 is the Solution

Solve an Equation Using Mental Math

* Think of Write the Equation as a Question.

ex 1)

$2x = 10 \Rightarrow$ What number times
two equals 10? 5

$4 = x - 3 \Rightarrow$ What number minus
three equals 4? 7

Real Life Math

Chips $\rightarrow 3.⁰⁰$

Beans $\rightarrow 1.⁰⁰$

Cheese $\rightarrow 4.⁰⁰$

Tomatos $\rightarrow 1.⁰⁰$

Olives $\rightarrow 1.⁵⁰$

Add Costs = $10 + x$

$$3 + 1 + 4 + 1 + 1.5 = 10 + x$$

$$10.5 = 10 + x$$

What number plus 10
equals 10.5? .50

I only had
\$10.⁰⁰

How Much More
do I need.

O.T.L.

① Pg 27-28 : 9-15 (all);
27-49 (0);
50

2. Turn in your quiz correctons in your mail slot.