

DO NOW

Simplify the following:

1) $[-6 + (-1)] + [-(-6 + 1)]$

Evaluate the expression if $a = -6$, $b = 9$, and $c = -3$:

2) $\frac{a + 15b}{c}$

1.6-1.7

TRANSLATING PROBLEMS INTO EQUATIONS

Simple Word Problems

Step 1 – Read problem carefully

Step 2 – Choose a variable and represent what is unknown

Step 3 – Reread the problem and write an equation

Translate the problems into equations.
DO NOT SOLVE.

Example 1

- (1) Marta has twice the money of Heidi
- (2) Together they have \$36.

How much does each have?

Example 2

- (1) A piece of plywood is 60 inches long and is sawed into two pieces.
- (2) One piece is 4 inches longer than the other.
What are the lengths of the pieces?

Example 3

Diane is three times as heavy as her packed suitcase. Her suitcase is 20 lbs heavier than her backpack. The weights of Diane, her suitcase, and her backpack total 170 lbs. How much does each way?