1.1.notebook August 28, 2017

Pre-Algebra

Chapter 1

Variables, Expressions and Integers

Chapter 1 topics:

- -evaluating and writing variable expressions
- -order of operations
- -ordering integers
- -operations with integers
- -finding points in a coordinate plane

How tall is this iceberg? Guesses:

30'
100'
200'
What information would help?

The highest point is 45 feet above the water and the lowest point is 357 feet below the

water.

Pre-Chapter Prerequisite Skills

pg. 4 in your book -do #1-6, and #8 Section 1.1
Expressions and Variables

Goal: to evaluate and write variable expressions.

If one hat costs \$5, what expression could we write to show the cost of:

- 1 hat? 1(5)
- 2 hats? 2(5)
- 4 hats? 4(5)
- (h hats?
- -Why is *h* a good variable to use, instead of x?

A <u>numerical expression</u> consists of numbers and expressions.

Ex-

5(4) or (6+10-3)

What is a variable? What is a variable expression?

Combination of Knows + 4nknows With operations

In our example with the cost of hats, how much would 20 hats cost? How do you know?

Evaluating expressions: plug in numbers for the variables.

if x = 13 and y = 5, evaluate the following expressions:

$$x - y = 13 - 5 = 8$$

$$4y + 2 + 5 + 2 = 22$$

20 - x
$$\frac{1}{20 - 13} = \frac{7}{7}$$

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You plan to bring cookies to class tomorrow to share with your friends. What expression would show how many cookies you would need for a class size of *c*?

Bringin 2 cookies for each+2c 5 C+h -> ows + 1hm wiere's

You ended up with 45 cookies and you brought all of them to school. What expression would show how many cookies each of your friends would get if you have *f* friends?

45 45 7

Hwk: pg 7 - 9 #18, 24 - 27, 32 - 38, 40, 52, 66 and 67