## Math 9 - Unit 4: Word Problems

Name: Mr. Hagen

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## **Lesson #2: Words to Equations**

Given the following mathematical operations, write down as many words that relate to it as you can:

+ more, addition, add, sum, plus, increased by, positive

## 1. Convert each to an expression:

a) the product of a number and 12

c) the quotient of 77 and 7



b) 7 less than x

d) half of 24

## 2. Convert each to an equation:

a) x decreased by 9 is 7

$$x - 9 = 7$$

c) twice v is equal to 28

b) r increased by 10 is 17

d) a number squared is 8

- 3. Convert each sentence to an expression with a variable. Use a "LET" statement to define the variables.
- a) There are 16 more white keys than black keys on a piano.

b) Jane is 6 years younger then her sister Melanie.

c) Michael has assists three more than twice the amount of goals.

d) Japan's population is 3.5 times that of Canada.