

$$\frac{50 \text{ km}}{1 \text{ hr}} \cdot \frac{0.62 \text{ mi}}{1 \text{ km}} = 31 \text{ mph}$$

Convert km \rightarrow mi

$$1 \text{ km} = 0.62 \text{ miles}$$

~~$$1 \text{ km} = 1 \text{ mi}$$~~

1.2 Evaluate & Simplify Expressions

7^3 means $7 \cdot 7 \cdot 7$

7 is called base
3 is called exponent

$$(-5)^4 = -5 \cdot -5 \cdot -5 \cdot -5 = +625$$

$$-5^4 = -5 \cdot 5 \cdot 5 \cdot 5 = -625$$

$$0-5^4$$

Order of Operations

1st - Parentheses
2nd - Exponents

Same level < Multiply
Divide

Same level < Add
Subtract

From
left
to right

Simplify

$$\textcircled{1} 1 + 7^2 - (5-3) \quad \textcircled{2} 4 - \underline{6 \cdot 3} + 4$$

$$1 + 49 - 2 \quad 4 - 18 + 4$$

$$\textcircled{48} \quad \textcircled{-10}$$

VocabVariable - A symbol or letter
 x, y, z^2, r Term - A combo of variables & #'s
 $3x, 4x, -2,$

Like Terms - Have same variable & exponent

 $3x \& 4x, x^2 \& -16x^2, \cancel{3c} \& \cancel{c}$
 Coefficient - The # in front of the variable
 $3x$ is 3, $-14xz^5$ is -14
Example

$3x^2 + 5x - 7$

Terms: $3x^2, 5x, -7$ Variable Terms: $3x^2 \& 5x$ Constant Terms: -7