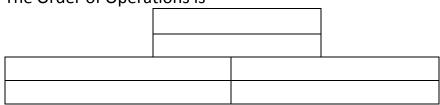
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Mid Term Study Guide

7.EE.1.2/1.2/2.3/2.4

Simplifying Expressions using the Order of Operations

The Order of Operations is



Simplify:
$$(6 + 12 \div 3) - 2^3 \cdot 8$$

$$8 - 2 \cdot 2 + 6$$

MOD:____

Solving Equations

$$x + 12 = 4$$

Solve for x:
$$x + 12 = 4$$
 $3x + 5 = -4$

$$\frac{x}{12} = 25$$

Inequalities

Write a phrase that represents the following inequality:

$$3w - 2 \ge 10$$

Solve the above!

Working with Real Numbers		
Express the following as decimals:	5%	$3\frac{4}{11}$
Joseph makes \$8.50 for each lawn th after mowing 4 lawns?	at he mows. How much m	noney will Joseph have earned
James wants to rent a car. It costs an James travel if he has \$75?	initial \$50 fee plus \$0.25	per mile. How many miles can

7.NS.1.1/1.2/1.3

Operations with Real Numbers

Find the sum or difference:
$$8 + (-4) + (6)$$
 $9 - 12 - (-12)$ $\frac{3}{16} + \frac{5}{16}$

$$9 - 12 - (-12)$$

$$\frac{3}{16} + \frac{5}{16}$$

Create a number line to show 3 - 5.



Subtract to following:
$$-\frac{1}{4} - \frac{3}{4}$$

$$-4 - (-7)$$

A diver began his journey at 3m above sea level. After one hour he traveled 15m further down. At what elevation is the diver after one hour?

Evaluate a - b if a = -12 and b = -5

7RP.1.1/1.2/1.3

Unit rates and Proportions

Michelle paid \$28.86 to fill up her gas tank. If her tank holds 14.5 gallons, what was the price per gallon to the nearest cent?

Melissa's airplane travels 685 miles in 3 hours. How far can the same plane travel in 5 hours?

Determine if $\frac{14}{21}$ and $\frac{10}{15}$ are proportional.

Vanessa sold \$92 in girl scout cookies. Her troop receives 45% of the sales. How much did the troop receive from Vanessa's sale?

A video game has a regular price of \$60. The game is on sale for 30% off. What is the sale price of the video game?

A local middle school has 750 students. In a random sample of 100 students, 15 of them play basketball. Predict the number of students at the school that play basketball.