

Monday, September 10, 2012

TISK

1)Add: $(-5) + (-12)$

2)Add: $\frac{8}{15} + \frac{4}{12}$

3)Classify the number $-\frac{25}{5}$

NO mental math today.

Homework: Percents Worksheet **

Please have
your write-ups
out and ready
to hand in!

Homework Review/Check

Lesson 8.2/8.3 Percent Equations

- Changing a sentence into a percent equation is easy:
 - The words “what” or “what number” stand for the unknown amount: x .
 - The words “is” or “is equal to” stand for the equals sign: $=$.
 - The word “of” stands for multiplication.
 - Now, just translate!

Example 1. Change the sentence into an equation.

- What number is 3% of 500?

$$x = \frac{3}{100} \cdot 500$$

- Five percent of what number is 27?

$$\frac{5}{100} \cdot x = 27$$

- Thirty-five is what percent of 600?

$$35 = \frac{x}{100} \cdot 600$$

Example 2. Change the sentence into an equation.

- What number is 21% of 300?

$$x = \frac{21}{100} \cdot 300$$

- Thirty percent of what number is 50?

$$\frac{30}{100} \cdot x = 50$$

- Fifteen is what percent of 12?

$$15 = \frac{x}{100} \cdot 12$$

Example 3. Change into an equation.

- Jack is determining his homework grade. He has found that he's earned 55 out of 75 points. What is his homework average?
 - Step 1. Rephrase into a percent question.
 - Fifty-five is what percent of 75?
 - Step 2. Write an equation.

$$55 = \frac{x}{100} \cdot 75$$

HOMEWORK

- Percents Worksheet
 - ONLY write an equation.
 - We will SOLVE these equations later!