Review of Homework #1

1. Compute using long division:

    $1672 \div 8$ $1111 \div 11$

2. A cow weighs 20 times as much as sheep weighs. Together the cow and the sheep weigh 2100 lb.

    a. How many pounds does the sheep weigh?

    b. How many pounds does the cow weigh?

1. **Simplify:**

    a) $1 \text{ cm} + 3 \text{ cm} + 5 \text{ cm} =$

    b) $3x + x + 9x - 12x =$

    c) $3x + 6x - 5x + 7 =$

    d) $3 + 4x + 2y - 4x =$

Solve the following equations:

$$3x = 27 \qquad\qquad 40 \div x = 8 \qquad\qquad z \div 6 = 42$$

_____   _____   _____

_____   _____   _____

_____   _____   _____

$$86 + x = 123 \qquad\qquad 128 - m = 54 \qquad\qquad z - 35 = 43$$

_____   _____   _____

_____   _____   _____

_____   _____   _____

3. A 3-digit number **A2B** is divisible by 3 and by 5. Find the number.

4. **Simplify expression, so that there is 0 (zero) on the right (move everything to the left)**

    a. $2x + a - 7 = x - a + 1$ b. $3y - b + 4 = b - y - 1$

5. Is the number 12345 divisible by 3? by 9? by 5? by 10?

6. Write an expression for the following problems:

   a. 3 packages of cookies cost a dollars. How many dollars do 5 of the same packages cost?

   b. 5 bottles of juice cost b dollars. How many bottles can one buy with c dollars?

7. Without calculating the sum, can you tell if $222 + 222222$ is divisible by 2? 3? 5? 10?