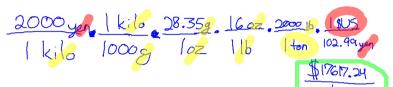
## Algebra 1 Bellwork Tuesday, December 17, 2013

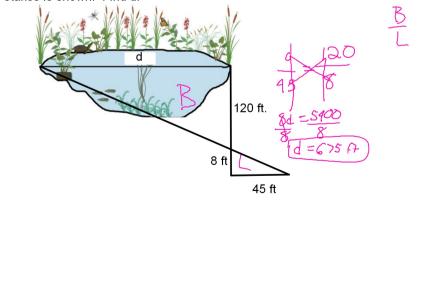
1. Convert 2000 Yen per kilogram to \$US per ton.

16 ounces = 1 pound 1 Kilogram = 1000 grams 1 ounce = 28.35 grams \$1 US = 102.99 Yen 2000 pounds = 1 ton



2000/1000 XZF.35 × 16 x 2006/102.99\_)

4. To measure the distance across a body of water some stakes were placed in the ground to create similar triangles. The distances between the stakes is shown. Find d.



2. Solve this proportion.

$$\frac{4x+9}{2x-7} = \frac{6}{5}$$

$$5(4x+9) = 6(2x-7)$$

$$2(3x+4) = 12x-42$$

$$-20x$$

$$46 = -3x + 42$$

$$+42$$

$$+42$$

$$87 + 82$$

$$81 + 8x$$

$$+2 = -10.875$$

3. 7 is 210% of what number?

$$\frac{210/}{100/} = \frac{7}{2} = \boxed{3.3}$$

5. The scale on the model of a ship is 3:250. If the model is 8 inches tall, how tall is the actual ship? Give your answer in feet.

$$\frac{3}{250} = \frac{8}{1}$$

$$3x = 250(8)$$

$$3x = 250(8)$$

$$55.56 \text{ ft}$$

6. What percent of 350 is 1.2?

$$\frac{1.2}{350} = \frac{120}{100} = \frac{360}{350} \times \frac{120}{350} = \frac{360}{3430} \times \frac{3430}{350} = \frac{360}{3430} \times \frac{360}{3430} = \frac{360}{3430} \times \frac{360}{350} = \frac{360}{3430} \times \frac{360}{350} = \frac{360}{350} \frac{360}{3$$