

Physics

fun with Conversions

Name: _____ Block: _____

Use conversions to answer the following questions. An example has been done for you.

1. One ton is equal to 2,000 pounds. How many pounds are in three tons?

$$\frac{3 \cancel{\text{ tons}} \mid 2000 \text{ pounds}}{1 \cancel{\text{ ton}}} = 6000 \text{ pounds}$$

2. How many legs are there in a nest of spiders containing 424 of the critters?

3. The directions of an experiment ask each student to weigh out 1.34 grams of copper wire. The only available wire is a spool weighing 50 grams. How many students can do the experiment before the wire runs out?

4. If an egg has a mass of 3 grams, what is the mass of 13.5 dozen eggs?

5. A football field spans 100 yards. How many inches is this?

6. Your school club has sold 600 tickets to a chili cookout and you volunteered to make the chili. You have a VERY large pot and a recipe that serves 10 people. The recipe calls for 2 teaspoons of chili powder. How much chili powder will you need to make enough chili for 600 people?

7. Convert the amount of chili powder in teaspoons from #6 to cups. 3 teaspoons = 1 tablespoon and 16 tablespoons = 1 cup.

8. You are driving your SUV through Canada and you need to stop for gas, which is priced at 95 cents per liter. If there are 3.3 L to one gallon, how many liters will fill your 21.4 gallon tank? How much will it cost to fill the tank?

9. You are a senior at FHS with major senioritis. You want to know how many seconds are left until graduation. If there are 39 days left, how many seconds is this?