

## National Vet Science Math Practicum Units of Measurements

These are common formulas and conversions that students should be prepared to use as they may appear on the Math Practicum.

### Units of Mass

1 kilogram (kg) = 2.2 pounds  
 1 pound = 0.45 kg  
 1 gram (g) = 1000 milligrams (mg)  
 1 pound = 453.59 g  
 60 grains (gr) = 1 dram (dr)  
 3 teaspoons (tsp) = 1 tablespoon (tbsp) = 1/2 oz = 14.3 g  
 2 tbsp = 1/8 cup = 1 oz = 28.3 g  
 4 tbsp = 1/4 cup = 2 oz = 56.7 g  
 5 1/3 tbsp = 1/3 cup = 2.6 oz = 75.6 g  
 8 tbsp = 1/2 cup = 4 oz = 113.4 g  
 12 tbsp = 3/4 cup = 6 oz = 0.375 pound  
 32 tbsp = 2 cups = 16 oz = 1 pound

### Units of Volume

1 tsp = 5 milliliters (ml)  
 2 tbsp = 1 fluid ounce (fl oz) = 30 ml  
 1/4 cup = 2 fl oz = 60 ml  
 1/2 cup = 4 fl oz = 125 ml  
 1 cup = 8 fl oz = 250 ml  
 1 1/2 cups = 12 fl oz = 375 ml  
 2 cups or 1 pint = 16 fl oz = 500 ml  
 4 cups or 1 quart = 32 fl oz = 1000 ml = 1 liter (L)  
 1 gallon = 128 fl oz = 4 L  
 2 pints = 1 quart  
 4 quarts = 1 gallon

### Units of Length

1 millimeter (mm) = 0.001 of a meter (m)  
 25 mm = 1 inch

### Units of Temperature

Celcius (°C) and Fahrenheit (°F)

°C = 5/9 (°F-32) or (°F-32) x 5/9  
 °F = 9/5 (°C) + 32 or °C x 9/5 + 32