

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 = $\frac{5}{9} (\text{°F} - 32)$ or $(\text{°F} - 32) \times \frac{5}{9}$
 °F = $\frac{9}{5} (\text{°C}) + 32$ or $\text{°C} \times \frac{9}{5} + 32$