Geometry, Measurement and Finance 10 – Conversions & Formulas

SI Length

1 cm = 10 mm

1 m. = 100 cm

1 km = 1000 m

2.54 cm = 1 in

1 m = 3.2808 ft

1 m = 1.0936 yd

1.6093 km = 1 mi

Imperial Length

1 ft. = 12 in.

1 yd = 3 ft.

1 mi. = 1760 yd

SI Capacity: 1 L = 100 mL

1 kL = 1000 L

SI Volume: 1 cm^3 = 1 mL

1000 cm^3 = 1 L

1 m^3 = 1000 L

1 m^3=1000 L

1 m= 3.2808 ft

SI (metric)...

1 g = 1000 mg

1 kg = 1000 g

1 t = 1000 kg

(Tonne)

28.4 g =1 oz

1 kg = 2.2 lbs

1 t = 1.1 tn

Imperial...

1 lb = 16 oz

1 tn = 2000 lb

(Ton)

TEMPERATURE CONVERSIONS...

$$C = \frac{5}{9}(F - 32)$$

$$F = \frac{9}{5}C + 32$$

CONVERTING COMMON COOKING UNITS

Imperial	*SI*
¼ teaspoon	1.25 mL
½ teaspoon	2.5 mL
1 teaspoon	5 mL
1 tablespoon (3 teaspoons)	15 mL
1 cup	250 mL
1 pint	568.2614 mL
1 quart (2 pt)	1.1365 L
1 gallon (4 qt)	4.5461 L

British

CONVERTING US IMPERIAL TO SI UNITS

US Imperial	*SI*
1 fl oz	29.5735 mL
1 pt = 16 fl oz	473.176 mL or 0.473 L
1 qt = 2 pt	946.352 mL or 0.946 L
1 gal = 4 qt	3785.4 mL or 3.785 L

Pythagorean Theorem...

$$c^2 = a^2 + b^2$$

SURFACE AREA FORMULAS...

$SA_{prism} = 2 \times A_{base} + Area\ of\ the\ rectangular\ lateral\ faces$

$SA_{pyramid} = A_{base} + Area\ of\ the\ triangular\ lateral\ faces$

$SA_{cylinder} = 2\pi r^2 + 2\pi rh$

$SA_{cone} = \pi r^2 + \pi rs$

$SA_{sphere} = 4\pi r^2$

VOLUME FORMULAS...

$V_{prism} = A_{base} \times height$

$V_{pyramid} = \frac{A_{base} \times height}{3}$

$V_{cylinder} = \pi r^2 h$

$V_{cone} = \frac{\pi r^2 h}{3}$

$V_{sphere} = \frac{4}{3}\pi r^3$