

MATH 10-3 FORMULA SHEET

Circumference

$$C = 2\pi r$$

$$C = \pi d$$

Area

Triangle

$$A = \frac{B \times H}{2}$$

Rectangle

$$A = lw$$

Circle

$$A = \pi r^2$$

B= base	d= diameter
H= height	r= radius
l= length	s= slant height
w= width	C= circumference
V= Volume	
S.A. = Surface Area	

Surface Area

Right Circular Cone S.A. = $\pi rs + \pi r^2$

Cylinder S.A. = $2\pi rh + 2\pi r^2$

Rectangular Solid S.A. = $2(lw) + 2(lh) + 2(wh)$

Volume

In general: $V = \text{Area of Base} \times \text{Height}$

V of cylinder = $\pi r^2 h$

V of Rectangular Solid = lwh

Conversions

Length

1 inch = 2.540 cm

1 foot = 0.305 m

1 yard = 0.914 m

1 mile = 1.609 km

Capacity/ Volume

1 gallon = 4.546L

1 fluid ounce = 29.573 mL

1 cm³ = 1 mL

1 cm³ = 0.061 in³

Mass/Weight

1 oz = 28.350 g

1 lb = 0.454 kg

1 lb = 16 oz

1 tonne = 1000 kg

1 ton = 2000 lbs

Temperature Conversions

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

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

Yearly Gross Income	Federal Tax Rate	Provincial Tax Rate	CPP Rate	E.I. Rate
0 to 31 677	16%	10%	4.95 % Max \$2,163.15	1.73% Max \$747.36
31 678 to 63 354	22%			
63 354 to 103 000	26%			
103 000 and over	29%			

Pythagorean Theorem

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

Trigonometry

SOH CAH TOA

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$