

Mathematics 10C Formula Sheet

Imperial Conversions

12 inches(in)=1 foot(ft)	8 fluid oz(fl. oz.)=1 cup(c)
3 feet (ft)=1 yard(yd)	2 cups(c)=1 pint(pt)
5280 feet(ft)=1 mile(mi)	2 pints(pt)=1 quart(qt)
16 ounces(oz)=1 pound(lb)	4 quarts(qt)=1 gallon(gal)
2000 pounds(lb)=1 ton(T)	

Metric Conversions

Kilo, Hecta, Deca, {grams, litres, metres} deci, centi, milli

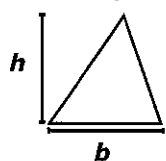
1 kilometre(km)=1000 metres(m)	1 kilogram(kg)=1000 grams(g)	1 Litre(L)=1000 millilitres(ml)
1 metre(m)=100 centimetres(cm)	1 gram(g)=1000 milligrams(mg)	
1 metre(m)=1000 millimetres(mm)		

Metric to Imperial Conversions

1 inch (in)=2.54 centimetres(cm)	1 metre(m)=3.281 feet(ft)
1 foot(ft)=30.48 centimetres(cm)	1 centimetre(cm)=0.397 inches(in)
1 yard(yd)=0.9144 metres(m)	1 kilometre(km)=0.6214 miles(mi)
1 millimetre(mm)=0.0394 inches(in)	1 mile(mi)=1.609 kilometres(km)

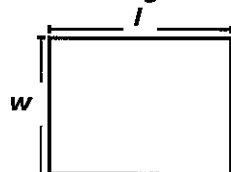
2-Dimensional Shape**Formula**

Triangle



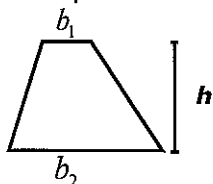
$$Area = \frac{1}{2}bh$$

Rectangle



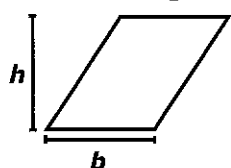
$$Area = lw$$

Trapezoid



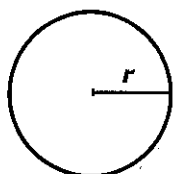
$$Area = \frac{1}{2}(b_1 + b_2)h$$

Parallelogram



$$Area = bh$$

Circle



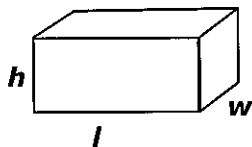
$$Area = \pi r^2$$

$$Circumference = 2\pi r$$

Surface Area and Volume

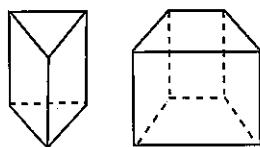
3 Dimensional Figure

Rectangular Prism



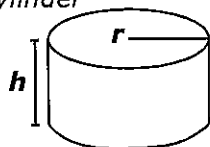
$$V = lwh = \text{length} \times \text{width} \times \text{height}$$

General Prisms



$$V = Bh = \text{area of base} \times \text{height}$$

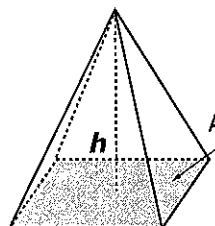
Right Circular Cylinder



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

$$SA = 2\pi r^2 + 2\pi rh$$

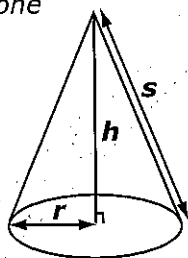
Right Pyramid



Area of base

$$V = \frac{1}{3} Bh = \frac{1}{3} \times \text{area of base} \times \text{height}$$

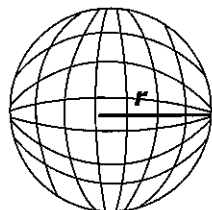
Right Circular Cone



$$V = \frac{1}{3} Bh = \frac{1}{3} \times \text{area of base} \times \text{height}$$

$$SA = \pi r^2 + \pi rs$$

Sphere



$$V = \frac{4}{3} \pi r^3$$

$$SA = 4\pi r^2$$

Slope of a Line

$$m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope-Intercept Equation for a Line

$$y = mx + b$$

Point-Slope Equation for a Line

$$y - y_1 = m(x - x_1)$$

Basic Trigonometric Ratios

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

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

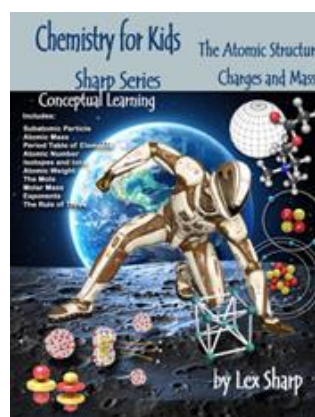
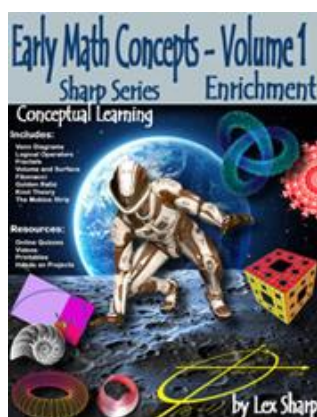
$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

We kept a copy of this document on our website for your convenience. Our partners help us with funding that allows us to continue to support your learning with free resources. Please support <https://sharpseries.ca> so we can continue to serve you.

Coding with Scratch Workbooks

Find these books on amazon at:

Volume 1: <https://www.amazon.com/dp/1719876800>, Volume 2: <https://www.amazon.com/dp/171998574X>,
Volume 3: <https://www.amazon.com/dp/1720042837>, Volume 4: <https://www.amazon.com/dp/1728935458>.



Find "Early Math Concepts" on amazon at: <https://www.amazon.com/dp/B06X3TFLPM>.

Find "Chemistry for Kids" on amazon at: <https://www.amazon.com/dp/B07BR5FH29>.



Find these books at: <https://www.amazon.com/dp/1795307005>, <https://www.amazon.com/dp/1795789166>, and <https://www.amazon.com/dp/1689213906>.