

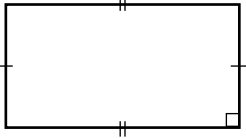
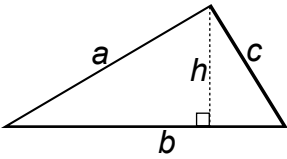
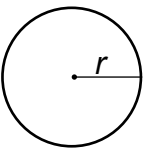
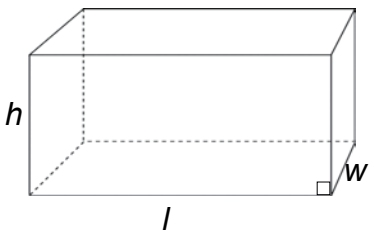
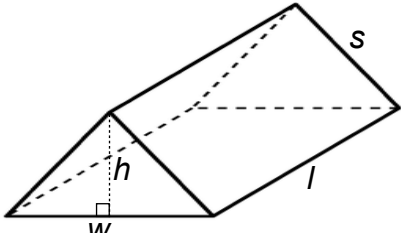
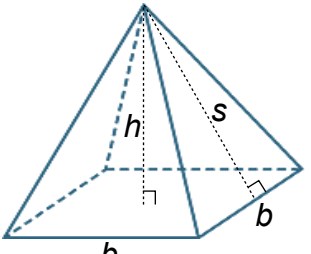
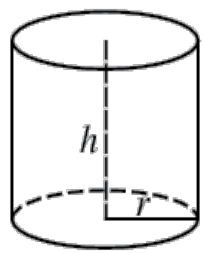
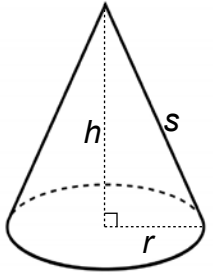
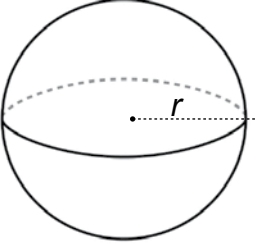
# Math at Work 11 Formula Sheet

Tear-out  
Page

## Linear Conversion Factors

Imperial	Imperial to Metric	Metric
1 ft = 12 in 1 yd = 3 ft 1 mi = 1760 yd	1 in = 2.54 cm	1 cm = 10 mm 1 m = 100 cm 1 km = 1000 m

## Area/Surface Area and Volume Formulas for 2-D and 3-D Figures

<p>Rectangle</p>  <p><math>P = 2l + 2w</math> <math>A = lw</math></p>	<p>Triangle</p>  <p><math>P = a + b + c</math> <math>A = \frac{bh}{2}</math></p>	<p>Circle</p>  <p><math>C = 2\pi r</math> <math>A = \pi r^2</math></p>
<p>Rectangular Prism</p>  <p><math>SA = 2lw + 2lh + 2wh</math> <math>V = lwh</math></p>	<p>Triangular Prism</p>  <p><math>SA = lw + wh + 2ls</math> <math>V = \frac{lwh}{2}</math></p>	<p>Square-Based Pyramid</p>  <p><math>SA = b^2 + 2bs</math> <math>V = \frac{b^2h}{3}</math></p>
<p>Cylinder</p>  <p><math>SA = 2\pi r^2 + 2\pi rh</math> <math>V = \pi r^2 h</math></p>	<p>Cone</p>  <p><math>SA = \pi r^2 + \pi rs</math> <math>V = \frac{\pi r^2 h}{3}</math></p>	<p>Sphere</p>  <p><math>SA = 4\pi r^2</math> <math>V = \frac{4\pi r^3}{3}</math></p>

Fold and tear along perforation.

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

Pythagorean Theorem

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

Simple Interest

$$I = Prt$$

Compound Interest

$$A = P\left(1 + \frac{r}{n}\right)^{nt}$$

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

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

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

