

## Ohio State Test Reference Sheet High School

1 foot = 12 inches

1 yard = 3 feet

1 mile = 1,760 yards

1 mile = 5,280 feet

1 mile  $\approx$  1.609 kilometers

1 inch = 2.54 centimeters

1 kilometer  $\approx$  0.62 mile

1 meter  $\approx$  39.37 inches

1 pound = 16 ounces

1 pound  $\approx$  0.454 kilograms

1 kilogram  $\approx$  2.2 pounds

1 radian =  $\frac{180}{\pi}$  degrees

1 cup = 8 fluid ounces

1 pint = 2 cups

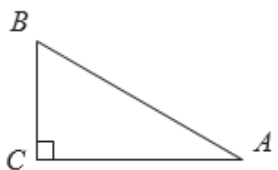
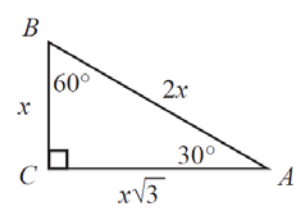
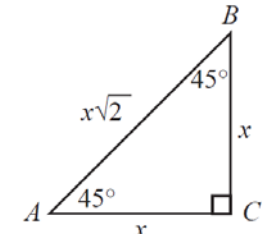
1 quart = 2 pints

1 gallon = 4 quarts

1 gallon  $\approx$  3.785 liters

1 liter  $\approx$  0.264 gallons

1 liter = 1000 cubic centimeters

Right Triangle Relationships		
 <div style="margin-left: 100px; margin-top: 20px;"> <math display="block">a^2 + b^2 = c^2</math> <math display="block">\sin A = \frac{a}{c}</math> <math display="block">\cos A = \frac{b}{c}</math> <math display="block">\tan A = \frac{a}{b}</math> </div>		

Key			
$b = \text{base}$	$B = \text{area of base}$	$h = \text{height}$	$r = \text{radius}$

Triangle	$A = \frac{1}{2} b h$
Parallelogram	$A = b h$
Circle	$C = 2 \pi r$
Circle	$A = \pi r^2$
General Prisms	$V = B h$
Cylinder	$V = \pi r^2 h$
Sphere	$V = \frac{4}{3} \pi r^3$
Cone	$V = \frac{1}{3} \pi r^2 h$
Pyramid	$V = \frac{1}{3} B h$