

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 cup = 8 fluid ounces

1 pint = 2 cups

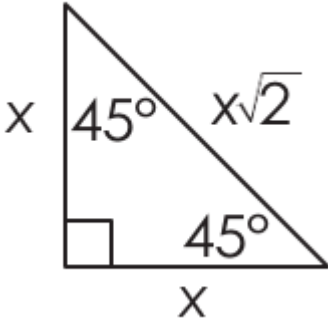
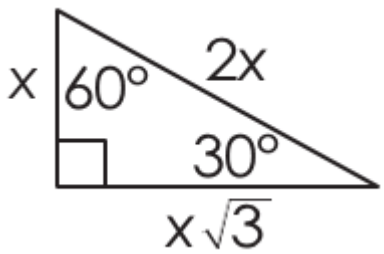
1 quart = 2 pints

1 gallon = 4 quarts

1 gallon \approx 3.785 liters

1 liter \approx 0.264 gallons

1 liter = 1000 cubic centimeters

Trigonometry		
$\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$		
$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$		
$\tan A = \frac{\text{opposite}}{\text{adjacent}}$		

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	$C = 2 \pi r$ $A = \pi r^2$

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	$V = \frac{1}{3} B h$

Distance Formula	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Quadratic Formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Addition Rule	$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$