Oklahoma State Testing Program 8th Grade Mathematics Formula Sheet

	IONS			
1 foot = 12 inches	1 pound = 10	6 ounces	1 cup = 8 fluid ounces	
1 yard = 3 feet	1 ton = 2000	pounds	1 pint = 2 cups	
1 mile = 5280 feet	1 kilogram =	1000 grams	1 quart = 2 pints	
1 mile = 1760 yards			1 gallon = 4 quarts	
1 meter = 100 centimeters				
1 meter = 1000 millimeters				
AREA				
Square $A = s^2$		Parallelogram	A = bh	
Rectangle $A = lw$		Circle	$A = \pi r^2$	
Triangle $A = \frac{1}{2}bh$	or $A = \frac{bh}{2}$	Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$ or $A = \frac{(b_1 + b_2)h}{2}$	
CIRCUMFERENCE				
Circle	$C = \pi d$ or $C = 2\pi r$			
VOLUME				
Rectangular Prism	V = lwh or $V = Bh$	Right Cylinder	$V = \pi r^2 h$ or $V = Bh$	
SURFACE AREA				
Rectangular Prism	S = 2lw + 2lh + 2wh	or $S = 2B + Ph$	1	
Cylinder	$S = 2\pi rh + 2\pi r^2$			
LINEAR EQUATIONS				
Slope-intercept	y = mx + b		Direct Variation $y = kx$ or $k = \frac{y}{x}$ (k: constant of proportionality)	
PYTHAGOREAN THEOREM				

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

For Spring 2024 Administration

