## Oklahoma State Testing Program 8<sup>th</sup> Grade Mathematics Formula Sheet

UNIT CONVERSI	ONS			
1 foot = 12 inches	1 pound = 16 ounces		1 cup = 8 fluid ounces	
1 yard = 3 feet	1 ton	= 2000 pounds	1 pint = 2 cups	
1 mile = 5280 feet	1 kilo	gram = 1000 grams	1 quart = 2 pints	
1 mile = 1760 yards			1 gallon = 4 quarts	
1 meter = 100 centime	ters			
1 meter = 1000 millimeters				
AREA				
Square	$A = s^2$	Parallelogra	m $A = bh$	
Rectangle	A = lw	Circle	$A = \pi r^2$	
Triangle	$A = \frac{1}{2}bh$	Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$	
CIRCUMFERENC	E			
Circle	$C = \pi d$ or $C =$	$2\pi r$		
VOLUME				
Rectangular Prism	V = Bh or $V =$	<i>lwh</i> Right Cylind	$V = Bh \text{ or } V = \pi r^2 h$	
SURFACE AREA				
Rectangular Prism	S = 2B + Ph or $S = 2lw + 2lh + 2wh$			
Cylinder	$S = 2\pi rh + 2\pi r^2$			
LINEAR EQUATION	ONS			
Slope-intercept	y = mx + b	Direct Varia	Direct Variation $y = kx$ or $k = \frac{y}{x}$ (k: constant of proportionality)	
Slope formula	$m = \frac{y_2 - y_1}{x_2 - x_1}$			
OTHER				
d = rt		Pythagorear	n Theorem $a^2 + b^2 = c^2$	
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