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

UNIT CONVERS	ONS			
1 foot = 12 inches		1 pound = 16 our	nces	1 cup = 8 fluid ounces
1 yard = 3 feet		1 ton = 2000 pou	nds	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	$A = \frac{1}{2}bh$		Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$
CIRCUMFERENCE				
Circle	$C=\pi d$ o	$C = 2\pi r$		
VOLUME				
Rectangular Prism	V = Bh o	V = lwh	Right Cylinder	$V = Bh$ 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 EQUATIONS				
Slope-intercept	y = mx + b	b	Direct Variation	y = kx
Slope formula	$m = \frac{y_2 - y_1}{x_2 - x_1}$			
OTHER				
d = rt			Pythagorean Theor	$rem  a^2 + b^2 = c^2$

