

# Oklahoma State Testing Program

## 7<sup>th</sup> Grade Mathematics Formula Sheet

### UNIT CONVERSIONS

1 foot = 12 inches

1 yard = 3 feet

1 mile = 5280 feet

1 mile = 1760 yards

1 centimeter = 10 millimeters

1 meter = 1000 millimeters

1 meter = 100 centimeters

1 kilometer = 1000 meters

1 pound = 16 ounces

1 ton = 2000 pounds

1 kilogram = 1000 grams

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 liter = 1000 milliliters

### AREA

Square  $A = s^2$

Rectangle  $A = lw$

Triangle  $A = \frac{1}{2}bh$  or  $A = \frac{bh}{2}$

Parallelogram  $A = bh$

Circle  $A = \pi r^2$

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  $V = Bh$

### SURFACE AREA

Rectangular Prism  $S = 2lw + 2lh + 2wh$  or  $S = 2(lw + lh + wh)$

### PROPORTIONAL RELATIONSHIPS

$y = kx$  or  $k = \frac{y}{x}$  ( $k$ : constant of proportionality)



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