

MAT 0018

MEASUREMENT STUDY GUIDE

****these items need to be memorized****

FORMULAS

Perimeter of a polygon:	P = sum of the lengths of the sides
Perimeter of a rectangle:	$P = 2 \cdot L + 2 \cdot W$
Perimeter of a square:	$P = 4 \cdot s$ (where s is the length of a side)
Circumference of a circle:	$C = 2 \cdot \pi \cdot r$ or $C = \pi \cdot d$
Area of a rectangle:	$A = L \cdot W$
Area of a square:	$A = s^2$
Area of a triangle:	$A = \frac{1}{2} \cdot b \cdot h$
Area of a parallelogram:	$A = b \cdot h$
Area of a trapezoid:	$A = \frac{1}{2} \cdot (b + B) \cdot h$
Area of a circle:	$A = \pi \cdot r^2$
Volume of a rectangular solid:	$V = L \cdot W \cdot H$

CONVERSIONS

1 foot = 12 inches	8 fluid ounces = 1 cup	1 ton = 2000 pounds
1 yard = 3 feet	2 cups = 1 pint	1 pound = 16 ounces
1 yard = 36 inches	16 fluid ounces = 1 pint	
1 mile = 5280 feet	2 pints = 1 quart	
	4 quarts = 1 gallon	

METRIC SYSTEM

KILO-	HECTO-	DEKA-	1	DECI-	CENTI-	MILLI-
1000	100	10		1/10	1/100	1/1000
km	hm	dam	m = meter	dm	cm	mm
kL	hL	daL	L = Liter	dL	cL	mL
kg	hg	dag	g = gram	dg	cg	mg

*Note: The units for the metric system go beyond these mentioned. We have smaller units than milli- and larger units than kilo-. In this course though, we will only be using those mentioned in the table above.