MBF 3C1

Name: \_\_\_\_\_

## UNIT 6 SURVIVAL GUIDE: Geometry

GEOMETRIC SHAPES						
<ul> <li>geometry is seen in everyday life</li> <li>many careers depend on geometry</li> <li>geometric shapes are important for</li> </ul>			Length 30.48 cm = 1 foot 2.54 cm = 1 inch 1.6 km = 1 mile	Mass 28.35 g = 1 ounce 0.454 kg = 1 pound 0.907 t = 1 ton (US) 454 g = 1 pound	Volume 15 mL = 1 tbsp 29.574 mL = 1 fluid ounce 0.473 L = 1 pint 3.785 L = 1 gallon 1L = 4 cups	<b>EX.</b> Jamie is visiting from Florida and wants to visit cottage country while here. She has heard of Muskoka and needs to know how far it is. Convert the 180 km drive to miles for her.
<ul> <li>→</li> <li>→</li> </ul>			10 mm = 1 cm 100 cm = 1 m 1000 m = 1 km	1000 g = 1 kg 1000 kg = 1 t	1000 mL = 1 L 16 tbsp = 1cup	
SOLVING PROBLEMS WITH GEOMETRY     a condition that limits or			3 ft = 1 yard 1760 yd = 1 mile	2000 lb = 1ton	16 fl oz = 1 pint 2 pints = 1 quart 8 pints = 1 gallon	
restricts options         →       →         →       →			<ul> <li>Each statement above ie. <u>100cm = 1m</u> can be written as ratios that are equivalent to</li> </ul>			<b>EX.</b> Jeremy measured the width of a room to be 15.7 ft. His boss needs the measurement in metres. Convert his measurement.
2-D SHAPE	Perimeter	AREA	100 <i>cn</i>	1	1 <i>m</i>	
rectangle	P = 2l + 2w (square: $P = 4s$ )	$A = lw$ (square: $A = s^2$ )	1 <i>m</i>	OR 1	00 <i>cm</i>	
parallelogra	P = 2b + 2c	A = bh	How d	lo you decide wh	ich ratio to	
trapezoid	P = a + b + c + d	$A = \frac{\left(a+b\right)h}{2}$	multip Look a	lly by? t placement of u would	nits, ensure that	
triangle	P = a + b + c	$A = \frac{bh}{2}$	Steps:		рюрену.	
circle	circle $C = \pi d$ or $A = \pi r^2$ $C = 2\pi r$ 1. Record what's give 2. Decide on how to p		what's given with on how to place a ra 	tio so that units		
3-D Овјест	SURFACE AREA	VOLUME	3. Multiply	/		
rectangular prism	SA = 2lw + 2wh + 2lh	V = lwh	top wi bottor 4 Simpli	h and ו with y final answer and record the result with	_ and  cord the result with	
triangular prism	SA = bl + ah + bh + ch	$V = \frac{bh}{2}L$	units.			
cylinder	$SA = 2\pi r^2 + 2\pi rh$	$V = \pi r^2 h$				

