Survival Guide

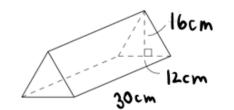
2300 cm²

1. Single step conversion

Joe is travelling in the United States. A road sign indicates he is 228 mi from his destination. How many kilometres is Joe from his destination?

6. Find surface area and volume

Unit 7 – Measurement



Name:

2. Multi step conversion – because of power

3. Multi step conversion – because of missing conversion link 1250mL c

4. Comparison of prices

The gas station on Maine Street charges \$24 for 32 L of gas, while the gas station on Kane Street charges \$25 for 10 gal of gas. Which store gives the most amount of gas for each dollar spent?

ft²

5. Converting Temperature

The temperature in Green Bay is 50°F convert to degrees Celsius.

Formulas for all shapes

Rectangle			
	P = 2(l + w) $A = lw$	h	SA = 2lw + 2lh + 2wh $V = l \times w \times h$
Square		Cylinder	
	$P = 4s$ $A = s^2$	• r h	$SA = 2\pi r^2 + 2\pi rh$ $V = \pi r^2 h$
	$P = a + b + c$ $A = \frac{bh}{2}$	Cone	$SA = \pi r^2 + \pi rs$ $V = \frac{\pi r^2 h}{3}$
Circle	$C = 2 \pi r$ $A = \pi r^{2}$	Sphere	$SA = 4\pi r^2$ $V = \frac{4\pi r^3}{3}$
Trapezoid	$P = a + b + c + d$ $A = \frac{h}{2}(a + b)$	Square- based pyramid b	$SA = add Areas of all shapes$ when unfolded $V = \frac{l \times w \times h}{3}$
		Triangular prism $a \land c \land c \land L_{prism}$	$SA = add Areas of all shapes$ when unfolded $V = \frac{b_{tri} \times h_{tri}}{2} \times L_{prism}$ $\sqrt{=} \left(\frac{bh}{2}\right) \left(L\right)$

Conversion Chart

	LENGTH	VOLUME	MASS	
Conversion for Imperial only	12 in = 1 ft 3 ft = 1 yd 1760 yd = 1 mi	16 tbsp = 1c 16 fl oz = 1 pt 2 pt = 1 qt 8 pt = 1 gal	16oz = 1lb 2000 lb = 1ton	Temperature ${}^{\circ}C = \frac{5}{9}(F - 32)$ ${}^{\circ}F = 1.8C + 32$
Conversion Between both	30.48 cm = 1 ft 2.54 cm = 1 in 1.6 km = 1 mi	15 mL = 1 tbsp 29.57 mL = 1 fl oz 0.473 L = 1 pt 3.785 L = 1 gal 1L = 4 c	28.35 g = 1 oz 454 g = 1 lb 0.454 kg = 1 lb 0.9 t = 1 ton (US)	
Conversion for Metric only	10 mm = 1 cm 100 cm = 1 m 1000 m = 1 km	1000 mL = 1 L	1000 g = 1 kg 1000 kg = 1 t	