# VESERIS

Example

## **Useful Conversion Factors** for Calibrations:

Standard Measures	Metric Conversions
LENGTH	
1 ft = 12 in	1 in = 25.4 mm
	= 2.54 cm
1 yd = 3 ft	1 ft = 304.8 mm
	= 30.48 cm
1 mi = 5,280 ft	1 yd = 914.4 mm
	= 91.44 cm
	= 0.914 m
	1 mi = 1,609 m = 1.61 km
	1 mm = 0.03937 in
	1  cm = 0.394  in
	= 0.0328  ft
	1 m = 39.37 in
	= 3.281 ft
	1 km = 3,281 ft
	= 0.6214 mi
AREA	
1 sq in = 0.007 sq ft	1 sq in = 645 sq cm
1 sq ft = 144 sq in	1 sq ft = 929 sq cm
= 0.000023 sq ac	
1 sq yd = 1,296 sq in	1 sq yd = 8,361 sq cm
= 9 sq ft	= 0.8361 sq m
1 ac = 43,560 sq ft	1 ac = 4,050 sq m
= 4,840 sq yd	= 0.405 ha
	1 sq cm = 0.155 sq in
	= 1 sq m
	= 1,550 sq in
	= 10.76 sq ft 1 ha = 107,600 sq ft
	= 2.47 ac
WEIGHT	2
1 oz = 0.0625 lb	
1 lb = 16 oz	1 oz = 28.35 g
	1 lb = 454 g
1 ton = 2000 lb	= 0.4536 kg 1 ton = 907 kg
1 gal water = 8.34 lb	1 ton = 907 kg 1 gal water = 3.786 kg
	1 g = 0.035 oz
	1  kg = 35.27  oz
	= 2.205 lb
VOLUME	
1 tsp = 0.17 fl oz	1 fl oz = 29.5 ml
	= 0.02951 L
1tbs = 3tsp	1 pint = 437 ml
	= 0.437 L
1 fl oz = 2 tbs	1 qt = 945 ml
= 6tsp	= 0.945 L
1  cup = 8  fl oz	1 gal = 3785 ml
= 16 tbs	= 3.785 L
1  pt = 2  cups	1 L = 33.8 fl oz
= 16 fl oz	= 2.112 pt
1 qt = 2 pt = 32 fl oz	= 10.57 qt = 231 cu in
- 52 IL 0Z	= 231 cu in = 0.264 gal
	= 0.264  gal 1 ml $= 0.033 \text{ fl oz}$
	- 0.0551102

#### **ABBREVIATIONS**

pt = pint

g = gram

(1 h = 10,000 sqm)

ac = acre	
fl oz = fluid ounce	
ft = foot/feet	
gal = gallon	
sq = square	
in = inch	
lb = pound	
mi = mile	
oz = ounce	

kg = kilogram qt = quart km = kilometer tbs = tablespoon L = liter tsp = teaspoon m = meter yd = yard ml = milliliter cm = centimeter mm = millimeter ha = hectare

### **Unit Conversion and Calibration Formulas**

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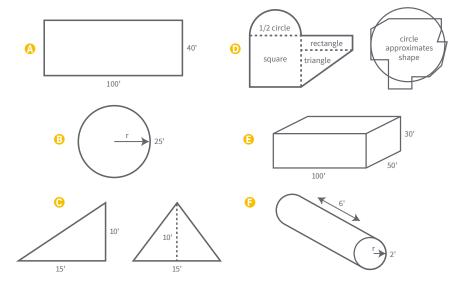
#### **Unit Conversion**

One acre = 43,560 square feet	1/2 acre = 21,780 square feet
One mile = 5,280 feet	1/4 mile = 1,320 feet
One gallon = 128 fluid ounces	1/2 gallon = 64 fluid ounces
One quart = 2 pints = 4 cups = 32 fluid ounces	2 quarts = 64 fluid ounces
One pint = 2 cups = 16 fluid ounces	. 1/2 pint = 1 cup = 8 fluid ounces
One tablespoon = 3 teaspoons = 1/2 fluid ounces	2 tablespoons = 1 fluid ounce
One pound = 16 ounces	1/4 pound = 4 ounces
One gallon = 231 cubic inches	2 gallons = 462 cubic inches

## **Area and Volume Calculations**

- Area of Rectangular or Square Shape: (Length) x (Width) = Area 100 feet x 40 feet = 4,000 square feet
- B Area of Circle: (Radius) x (Radius) x (3.14) = Area 25 feet x 25 feet x 3.14 = 1,962.5 square feet
- Area of Triangular Shape: (1/2) x (Base Width) x (Height) = Area 1/2 x 15 feet x 10 feet = 75 square feet
- Area of Irregular Shape: Irregularly shaped sites can often be reduced to a combination of rectangles, circles and triangles. Calculate the area of each shape and add the values of the individual areas to obtain the total area.
- Another method for calculating the area of an irregular shape is to convert the site into a circle. From a center point, measure the distance to the edge of the area in 10 or more increments. Average these measurements to find the radius, then calculate the area using the formula for a circle.
- 3 Volume of Cube or Box Shape: The volume of a cube or box is found by multiplying the length, times the width, times the height. 100 feet x 50 feet x 30 feet = 150,000 square feet
- **Olume of Cylindrical Shape:** The volume of a cylinder is found by calculating the area of the round end (see formula for circle) and multiplying this area times the length or height.

(Radius) x (Radius) x (3.14) = Area of Circle (Area of Circle) x (Length) = Volume of Cylinder (2 feet) x (2 feet) x (3.14) x (6 feet) = 75.36 cubic feet



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