

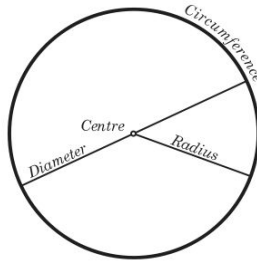
Useful Information

Properties of a Circle:

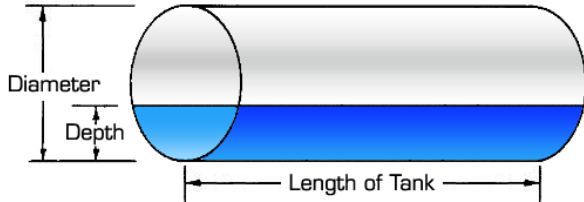
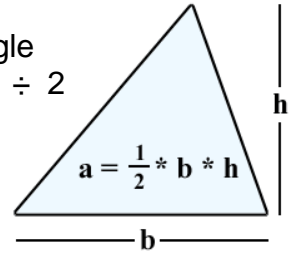
$$\text{area} = d^2 \times 0.7854$$

$$c^2 \times .07958$$

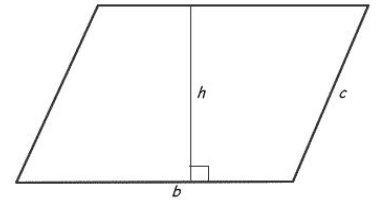
$$\text{circumference} = d \times 3.1416$$



Area of a Triangle
= base x height ÷ 2



The capacity of a cylindrical tank in gallons
= $d^2 \times 5.8748 \times \text{length}$
in feet



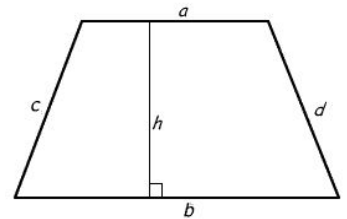
Area of a Parallelogram
= base x height

Oil tanks are usually measured in barrels of 42 gallons each
The volume of a sphere = $0.5236 \times \text{the cube of the diameter}$

Pools and Lake Capacities:

$$\text{surface area} = \text{total gals} \div 7.481 \div \text{average depth}$$

$$\text{total gals} = \text{surface area} \times 7.481 \times \text{average depth}$$



Area of a Trapezoid
= $(a + b) \div 2 \times \text{height}$

A - 1" layer of sand/gravel in cubic yards = the surface area ÷ 324

A - 2" layer of sand/gravel in cubic yards = the surface area ÷ 162

1.4 tons of gravel per cubic yard

1.35 tons of sand per cubic yard

1 boiler horsepower = 33,500 BTU output per hour

The rated horsepower of a compressor is approximately equal to the number of tons of refrigeration.

1 ton of refrigeration = 12,000 BTU

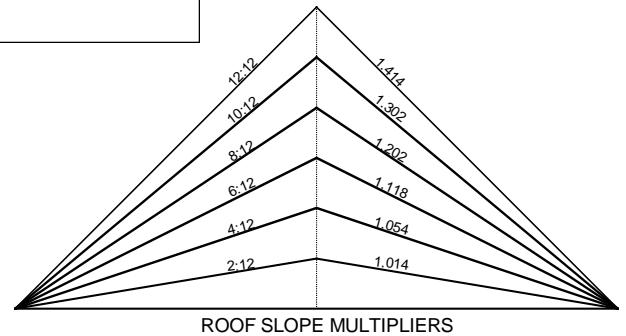
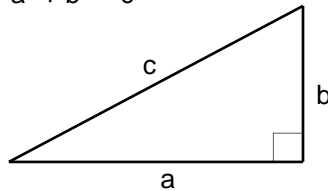
Electric Motors:

1 horsepower = 745.7 watts

1 horsepower is equal to the power to lift 550 pounds 1 foot in 1 second

$c \div a = \text{slope multiplier}$

$$a^2 + b^2 = c^2$$



Common Areas of Length and Area:

1 inch = 2.54 cm

1 foot = 0.305 meters

1 yard = 0.914 meters

1 mile = 1.609 kilometers

1 sq. ft. = 0.093 sq. meters

1 sq. yd. = 0.836 sq. meters

1 gallon = 3.785 liters

1 gallon = 0.1337 cu. ft.

1 cu. ft. = 7.481 gallons

Air-Conditioning Requirements (sq. ft. per tonnage required)

lounges & restaurants.....	125 to 275
luxury high-value residences.....	150 to 450
churches, auditoriums, theaters.....	200 to 375
clubhouses & country clubs.....	225 to 400
schools, libraries & offices.....	250 to 500
bowling alleys, retail stores and shopping centers.....	300 to 500
hotels & motels.....	280 to 450
residential occupancies.....	400 to 750

Software Database Categories and Travel Checklist

Reserve Data Analysis, Intl.

August 10, 2010

Software Database Categories:

10. Streets/Asphalt Surfaces
 - asphalt overlay, repairs & sealing
 - striping
20. Roofing
 - all
30. Painting
 - interiors, exteriors, fencing, etc.
40. Fencing
 - fencing & gates
50. Lighting
 - interior, exterior, grounds
60. Recreation
 - pool replastering & equipment
 - pool furnishings
 - tennis court resurfacing, windscreen
 - park & play equipment
 - sand replacement
70. Interior Furnishings & Finishings
 - floor, wall & ceiling coverings
 - draperies
 - base and wall cabinets
 - plumbing fixtures
 - all furnishings
 - appliances
80. Equipment
 - heating, cooling
 - pumps, motors, storage tanks
 - cooling towers
 - vehicles
 - fire protection
 - barrier arms, spike beds,
 - controlled access equipment
 - elevators
90. Misc. Building
 - awnings
 - doors
 - decks & balconies
 - stairways, railing
 - fire cabinets, fire escapes
 - gutters & downspouts
 - termite fumigation
100. Grounds
 - directory boards
 - signs
 - flag poles
 - mailboxes
 - tree trimming
 - slope failure
 - irrigation equipment

Travel Checklist:

- Measuring wheel
- Replacement meter for wheel
- Pouch/belt with:
 - tape measure
 - stub phillips screwdriver
 - stub slot screwdriver
 - 1/8" x 4" screwdriver
 - roof slope multiplier
 - business cards
 - highlighters
 - plastic lock opener
 - pencil sharpener
 - small flashlight
- Clipboard, 2 pencils and 1 pen
- Assorted field worksheets
- Notepad
- Post-it notes
- Camera
- Batteries
- Architectural & engineer rulers
- Map measurer
- Solar calculator
- Financial calculator
- Notebook computer
- Area multiplier
- Project folder & site directions
- Useful information sheet
- Airline tickets
- Passport & Visa
- Cellular phone and charger
- Travel kit +
 - glasses and/or contacts
 - sunglasses
 - alarm clock
 - Band-Aids
 - movies/DVDs
- Check local weather and bring appropriate clothes

Asset naming examples:

Category – Sub Category, Group or Location

Paint – Exterior, Stucco

Paint – Exterior, Woodwork

Paint – Interior, Hallways

Paint – Interior, Lobby

Paint – Interior, Meeting Room

Paint – Interior, Restrooms