

# 3-4-2 Unit Conversions page 4

a)  $\frac{\text{inches}}{\text{meter}} \frac{7}{0} = \frac{x}{54}$  try meters to feet instead first

$\frac{\text{feet}}{\text{meter}} \frac{1}{0.3048} = \frac{x}{54}$  177.17 ft  $\frac{\text{ft}}{\text{inches}} \frac{1}{12} = \frac{177.17}{x}$  2125.98 inches  
or 2126.038 in if you use the other conversion factor

b)  $\frac{\text{inches}}{\text{feet}} \frac{12}{1} = \frac{15}{x}$  1 1/4 ft  $\frac{\text{ft}}{\text{meter}} \frac{1}{0.3048} = \frac{1 1/4}{x}$  0.381 meters

c)  $\frac{\text{sq ft}}{\text{sq m}} \frac{1}{0.0929} = \frac{x}{13}$  139.94 sq ft or  $\frac{10.77}{1} = \frac{x}{13}$  140.01 sq ft

d)  $\frac{\text{gal}}{\text{lt}} \frac{1}{3.785} = \frac{x}{5}$  1.32 gal e)  $\frac{\text{ft}}{\text{yards}} \frac{3}{1} = \frac{x}{1.3}$  3.9 ft

f)  $\frac{\text{meters}}{\text{feet}} \frac{x}{3.9} = \frac{0.3048}{1}$  1.188 meters

g)  $\frac{\text{liters}}{\text{cuft}} \frac{28.32}{1} = \frac{x}{543}$  15377.76 liters or  $\frac{1}{0.03531} = \frac{x}{543}$  15378.08 L

h)  $\frac{\text{sq m}}{\text{sq ft}} \frac{0.0929}{1} = \frac{x}{100}$  9.29 sq m or  $\frac{1}{10.77} = \frac{x}{100}$  9.29 sq m

i)  $\frac{\text{sq ft}}{\text{sq m}} \frac{1}{0.0929} = \frac{x}{100}$  1076.43 sq ft or  $\frac{10.77}{1} = \frac{x}{100}$  1077 sq ft

j)  $\frac{\text{gal}}{\text{cuft}} \frac{1}{0.1337} = \frac{x}{50}$  373.97 gal or  $\frac{7.481}{1} = \frac{x}{50}$  374.05 gal