

## Section 1.1: Imperial Measurements (Conversions)

1. Convert the following measurements.

- a) 120 in. = \_\_\_\_\_ ft.    b) 84 in. = \_\_\_\_\_ ft.    c) 21 ft. = \_\_\_\_\_ yd.  
d) 24 ft. = \_\_\_\_\_ yd.    e) 11 ft. = \_\_\_\_\_ in.    f) 8 ft. = \_\_\_\_\_ in.  
g) 108 in. = \_\_\_\_\_ yd.    h) 432 in. = \_\_\_\_\_ yd.    i) 6 mi. = \_\_\_\_\_ yd.  
j) 12 mi. = \_\_\_\_\_ ft.    k) 7 mi. = \_\_\_\_\_ yd.    l) 14080 yd. = \_\_\_\_\_ mi.

2. Convert the following measurements.

- a) 5 ft. 8 in. to inches  
b) 115 inches to feet and inches  
c) 55 inches to yards, feet and inches  
d) 272 inches to yards, feet and inches  
e) 75 yd. 2 ft. 3 in. to inches  
f) 125 feet to yards and feet  
g) 353 inches to yards, feet and inches  
h) 154 inches to yards and inches

3. Convert the following measurements.

- a) 4 mi. 2760 ft. to feet  
b) 24600 ft. to miles and feet  
c) 4 mi. 960 yd. to yards  
d) 10440 ft. to miles and feet  
e) 6360 yd. to miles, and yards  
f) 4 mi. 6 yd. 5 ft. to feet  
g) 11 414 yd. to miles, and yards  
h) 2 mi. 24 yd. 7 ft. to feet  
i) 28 925 ft. to miles, yards, and feet  
j) 16 293 yd. to miles and yards

4. John wants to install crown mouldings around his living room ceiling. His living room is 18 ft. 3 in. by 16 ft. 11 in.

- a) What is the total length of mouldings needed?  
b) Crown moulding are sold in 8 ft. lengths. How many pieces of moulding do he need?  
c) Each length of moulding cost \$5.89. How much will the moulding cost before taxes?