

# Decimal Feet Quiz

Name KEY

## WITHOUT USING THE TABLE

1) The length of a room is  $5' 1\frac{3}{8}"$ . What is this in decimal feet?

5

$$\frac{1}{2} = .0833$$

$$\frac{\frac{3}{8}}{12} = \frac{3}{8} \times \frac{1}{12} = \frac{3}{96} = .03125$$

$$5 + .0833 + .03125 =$$

$$5.11455 \approx \boxed{5.1146}$$

2) 12.6302 feet is equivalent to what in feet and inches?

12

$$.6302 \times 12 = 7.5624$$

7"

$$.5624 = \frac{5624}{10000} = \frac{4}{4} = \frac{1406}{2500} \approx \frac{14}{25} = \frac{9}{16}$$

$\frac{9}{16}"$

We usually do not measure using 25ths. Convert this to 16ths

$$\frac{14}{25} = \frac{x}{16}$$

$$(14)(16) = 25x$$

$$224 = 25x$$

$$896 = x$$

$$x \approx 9$$

\*\*WITH THE CHART\*\*

## CONVERT TO DECIMAL FEET

4)  $4' 4\frac{3}{16}"$

$$\boxed{4.3490}$$

5)  $8' 1\frac{7}{8}"$

$$\boxed{8.1563}$$

Convert each decimal foot measurement back into feet and inches

5) 7.4844

$$\boxed{7' 5\frac{13}{16}"}$$

6) 4.2604

$$\boxed{4' 3\frac{1}{8}"}$$