Decimal Feet Worksheet

Name KEY

WITHOUT USING THE TABLE

1) The length of a room is $13' \ 5\frac{3}{16}"$. What is this in decimal feet?

13 stays the same

5 inches converted to feet = $5/12 = .41667$

$\frac{3}{16}"$ converted to a foot = $\frac{3/16}{12} = \frac{3}{16} \times \frac{1}{12} = \frac{3}{192} = .015625$

$13 + .4167 + .0156$

13.4323

2) The length of a room is $8' \ 2\frac{1}{8}"$. What is this in decimal feet?

8 stays the same

$\frac{2}{12} = .1667$

$\frac{\frac{1}{8}}{12}$. $\frac{1}{8} \times \frac{1}{12} = \frac{1}{96} = .0104$

$8 + .1667 + .0104 =$ 8.1771

3) 5.1510 feet is equivalent to what in feet and inches?

$.1510 \times 12 = 1.812$

5 feet 1 inch and .812 of an inch

$\frac{812}{1000} = \frac{203}{250} \approx \frac{200}{250} = \frac{4}{5} =$ $5'1\frac{4}{5}"$ $5'1\frac{13}{16}"$

4) 10.6146 feet is equivalent to what in feet and inches?

Do we usually measure in 1/5? NO. This is closest to $\frac{13}{16}$

10 feet

$.6146 \times 12 = 7.3752$

7 inches

$\frac{3752}{10000} \approx \frac{375}{1000}$

$\frac{375}{1000} = \frac{\div 125}{\div 125} = \frac{3}{8}$

$10' \ 7\frac{3}{8}"$

WITH THE CHART

CONVERT TO DECIMAL FEET

5) $3' \ 3\frac{13}{16}"$ 3.3177

6) $10' \ 8\frac{5}{8}"$ 10.7188

Convert to Feet and Inches

7) 10.5 $10'6"$

8) 2.2344 $2' \ 2\frac{13}{16}"$