Converting Fractions and Decimals Quiz Name KEY

1) A 3/8" sub floor and a 11/32" flooring were installed in a hall. What is the total floor thickness as a decimal?

$4\times\ \frac{3}{8} + \frac{11}{32}$

$4\times\ \downarrow \qquad \downarrow$

$\frac{12}{32} + \frac{11}{32} = \frac{23}{32}$

.71875

32 | 23.00000

224

60

32

280

256

240

224

160

160

0

= .71875"

2) The thickness of a carpet pad is 1.125". What is this number as a fraction?

$1.125 = 1\frac{125}{1000}$

$\frac{125 \div 25}{1000 \div 25} = \frac{5}{40} \div \frac{5}{5} = \frac{1}{8}$ = 1 1/8"

3) A 0.375" drill bit is the same as what fraction?

$.375 = \frac{375}{1000} \div \frac{25}{25} = \frac{15}{40} \div \frac{5}{5} = \frac{3}{8}$ 3/8"

4) Convert the following fractions to decimals.

a) 6/15

.4

15 | 6.0

60

0

= .4

b) 15/16

.9375

.9375

16 | 15.00000

144

60

48

120

112

80

80

0

5) Convert the following decimals to fractions. Reduce to lowest terms

a) 0.96

$\frac{96 \div 4}{100 \div 4} = \frac{24}{25}$

b) 0.03125

$\frac{3125}{100{,}000} \div \frac{25}{25} = \frac{125}{4000} \div \frac{25}{25} = \frac{5}{160} \div \frac{5}{5} = \frac{1}{32}$