

1) A 0.625" drill bit is the same as what fraction?

$$.625 = \frac{625 \div 25}{1000 \div 25} = \frac{25 \div 5}{40 \div 5} = \frac{5}{8} \quad \boxed{\frac{5}{8}''}$$

2) The thickness of a carpet pad is 0.3125". What is this number as a fraction?

$$.3125 = \frac{3125 \div 25}{10000 \div 25} = \frac{125 \div 25}{400 \div 25} = \frac{5}{16} \quad \boxed{\frac{5}{16}''}$$

3) A 5/8" sub floor and a 15/32" flooring were installed in a hall. What is the total floor thickness as a decimal?

$$4 \times \frac{5}{8} + \frac{15}{32}$$

$$\frac{20}{32} + \frac{15}{32} = \frac{35}{32}$$

$$32 \overline{) 35.00000} \\ \underline{32} \\ 300 \\ \underline{288} \\ 120 \\ \underline{96} \\ 240 \\ \underline{224} \\ 160 \\ \underline{160} \\ 0$$

$$= 1.09375'' \quad \boxed{1.09375''}$$

4) The thickness of the baseboard is 13/16". What is this as a decimal?

$$\frac{13}{16} = \frac{8125}{10000} \quad \boxed{.8125''}$$

5) Convert the following fractions to decimals. Round to the nearest thousandth if needed

a) $8/25 = \frac{32}{100} = .32 \quad \boxed{.32}$

b) $15/32 = \frac{46875}{100000} = .46875 \quad \boxed{.46875}$

$$32 \overline{) 15.00000} \\ \underline{128} \\ 220 \\ \underline{192} \\ 280 \\ \underline{256} \\ 240 \\ \underline{224} \\ 160 \\ \underline{160} \\ 0$$

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

a) $0.56 = \frac{56}{100} = \frac{28 \div 2}{50 \div 2} = \frac{14}{25} \quad \boxed{\frac{14}{25}}$

b) $0.15625 = \frac{15625}{100000} = \frac{125 \div 25}{800 \div 25} = \frac{5}{32} \quad \boxed{\frac{5}{32}}$