

Name: Class:

Convert fractions and mixed numbers to decimals

Convert the following

a. $21\frac{6}{15} = \boxed{}$

f. $17\frac{3}{5} = \boxed{}$

b. $\frac{7}{25} = \boxed{}$

g. $125\frac{41}{50} = \boxed{}$

c. $98\frac{6}{1000} = \boxed{}$

h. $67\frac{18}{25} = \boxed{}$

d. $1\frac{729}{1000} = \boxed{}$

i. $11\frac{25}{50} = \boxed{}$

e. $3\frac{1}{2} = \boxed{}$

j. $54\frac{54}{1000} = \boxed{}$

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Convert the following

a. $21\frac{6}{15}$

Let's first of all break our mixed number

 $21\frac{6}{15}$ is the same as $21 + \frac{6}{15}$

Now, let's use long division to turn the fraction part into a decimal.

$$21 + \frac{6}{15} = \begin{array}{r} 0.4 \\ 15 \overline{) 60} \\ \underline{- 60} \\ 0 \end{array}$$

$21 + \frac{6}{15} = 21 + 0.4 = 21.04$

So, $21\frac{6}{15} = 21.04$

b. $\frac{7}{25}$

Let's use normal long division to convert out fraction into a decimal

$$\frac{7}{25} = \begin{array}{r} 0.28 \\ 25 \overline{) 70.0} \\ \underline{- 50} \downarrow \\ 200 \\ \underline{- 200} \\ 0 \end{array}$$

So, $\frac{7}{25} = 0.28$

c. $98\frac{6}{1000} = 98.006$

d. $1\frac{729}{1000} = 1.729$

e. $3\frac{1}{2} = 3.5$

f. $17\frac{3}{5} = 17.6$

g. $125\frac{41}{50} = 125.82$

h. $67\frac{18}{25} = 67.72$

i. $11\frac{25}{50} = 11.5$

j. $54\frac{54}{1000} = 54.054$