Name _____ Period_____ Date_____

Converting Fractions to Decimals

Equivalent Fractions: First, try to make an equivalent fraction whose denominator is a power of 10. The denominator will tell how many digits are to the right of the decimal point. (If you cannot do this go to long division.)

Long Division: Divide the numerator by the denominator.

Example: Convert $\dfrac{3}{25}$ to a decimal.

The denominator of 25 can be converted to 100 by multiplying by 4. Create equivalent fractions: $\dfrac{3}{25} = \dfrac{12}{100}$

Since the denominator is 100, two digits are needed to the right of the decimal point.

Therefore $\dfrac{3}{25} = 0.12$

Convert to decimals.

1. $\dfrac{1}{2}$

2. $\dfrac{3}{5}$

3. $\dfrac{5}{8}$

4. $\dfrac{7}{10}$

5. $\dfrac{3}{4}$

6. $\dfrac{8}{25}$

7. $\dfrac{7}{8}$

8. $\dfrac{4}{5}$

9. $\dfrac{1}{10}$

10. $\dfrac{13}{20}$

11. $\dfrac{3}{100}$

12. $\dfrac{3}{8}$