Warm Up   8/31/18

Label the following as a REPEATING or TERMINATING decimal

1. $\dfrac{5}{6}$

$0.8\overline{3}$

$6\overline{\smash{\big)}5.000}$
$\underline{48}$
20
$\underline{18}$
20

2. $\dfrac{2}{9}$

$0.\overline{2}$

0.275

3. $\dfrac{11}{40}$

0.27

$40\overline{\smash{\big)}11.00}$
$\underline{80}$
30
$\underline{28}$
20

4. $\dfrac{3}{7}$

0.4285

$7\overline{\smash{\big)}3.000000}$
$\underline{28}$
20
$\underline{14}$
60
$\underline{56}$
40
$\underline{35}$
50
$\underline{49}$
10

5. $\dfrac{27}{50} = \dfrac{54}{100}$

0.54

6. $\dfrac{15}{4}$

3.75

$4\overline{\smash{\big)}15.00}$
$\underline{12}$
30
$\underline{-28}$
20

Converting Decimal ➡ Fraction

Put decimal as numerator over 10, 100, 1000 and simplify

0.875

0.333

0.667

0.6

0.2

Converting to a Percent

From <u>Fraction:</u> Put fraction over 100
or convert to decimal

From <u>Decimal</u>: Swoop the decimal point
2 places to the right

1. $0.4 =$ **40%**

3. $0.667 =$ **66.7%**

5. $0.75 =$ **75%**

7. $0.375 =$ **37.5%**

2. $\dfrac{1}{3} =$ **33.3%**

4. $\dfrac{5}{8} =$ **62.5%** ~~62.5 62.2~~

6. $0.25 =$ **25%**

8. $0.5 =$ **50%**

Converting from a Percent

$$\frac{25}{100} = \frac{1}{4} \quad 0.25 \qquad 0.165$$

To <u>Fraction</u>:   Put % over 100 or $\frac{165}{1000}$

convert to a decimal

To <u>Decimal</u>:   Swoop the decimal point
2 places to the left

42% $\boxed{0.42}$

$\dfrac{42}{100} = \boxed{\dfrac{21}{50}}$

$\cdot 0.0$ **0.6%** 0.006

$\dfrac{6}{1000} = \dfrac{3}{500}$

15.5% $\dfrac{155}{1000} = \boxed{\dfrac{31}{200}}$ **20%**

0.155 0.2 $\dfrac{1}{5}$

0.33333

33 1/3% $0.\overline{3}$ **4.25%** 0.0425

$\dfrac{1}{3}$ $\dfrac{425}{10,000} = \dfrac{17}{400}$

Take Quiz

When finished…. Put it in the turn-in bin for your class