

This worksheet will provide practice in converting fractions and decimals.

- *To change a percent into a decimal:* Move the **decimal point** two places to the **left** (away from the percent) and drop the percent. (Remember that adding a decimal point after any whole number does not change its value).  $25\% = 25.0\% = .25$
- *To change a decimal into a percent:* Move the decimal point two places to the right (toward the percent) and add the percent. (Remember that adding zero to the right of any decimal does not affect its value).  $.25 = 25\%$ ,  $3.1 = 310\%$
- *To change a decimal into a fraction:* There are 2 methods.
  - Read the decimal using place value, and write the fraction (ex:  $.75$  is read “seventy five hundredths” or  $\frac{75}{100}$ ).
  - The digits in the decimal become the fraction’s numerator (top number in a fraction)  $\frac{8}{25}$ . To determine the denominator (bottom number in a fraction), place a 1 in the denominator. Add the total number of digits in the decimal and add one zero for each digit to the denominator. There are 2 digits in the number “75”. Add 2 zeros to the denominator:  $\frac{75}{xxx}$ . Ex:  $.473 = \frac{473}{1000}$  (3 digits in 473, 3 zeros in the denominator).
- *To change a fraction into a decimal:* Divide the numerator by the denominator. The numerator (top number) is placed inside of the division problem. The denominator (bottom number) is placed outside of the division problem.  
 Ex:  $\frac{3}{4}$ ,  $3 \div 4 = 0.75$

Complete the following chart.

| Fraction       | Decimal .000 | Percent 00% |
|----------------|--------------|-------------|
| $\frac{8}{25}$ | 1)           | 2)          |
| 3)             | .07          | 4)          |
| 5)             | 6)           | 12%         |
| $\frac{1}{4}$  | 7)           | 8)          |
| 9)             | .5           | 10)         |
| 11)            | 12)          | 20%         |