Name _____ Date _____ Answer Key

FRACTION BASICS:

Converting Fractions and Decimals

Fractions and decimals both represent parts of wholes. You can convert between fractions and decimals. Look at the examples below to see how. Think about place value charts to help you!

Converting Fractions to Decimals

Convert $\frac{1}{10}$ to a decimal.

$\frac{1}{10}$ is 1 out of 10, or one tenth:

ones		tenths
0	.	1

$\frac{1}{10} = 0.1$

Convert $\frac{53}{100}$ to a decimal.

$\frac{53}{100}$ is 53 out of 100, or fifty-three hundredths:

ones		tenths	hundredths
0	.	5	3

$\frac{53}{100} = 0.53$

Converting Decimals to Fractions

Convert 0.8 to a fraction.

0.8 is the same as eight tenths:

ones		tenths
0	.	8

$0.8 = \frac{8}{10}$

Convert 0.72 to a fraction.

0.72 is the same as seventy-two hundredths:

ones		tenths	hundredths
0	.	7	2

$0.72 = \frac{72}{100}$

Write each fraction as a decimal.

$\frac{5}{10} =$ 0.5 $\quad \frac{63}{100} =$ 0.63 $\quad \frac{92}{100} =$ 0.92 $\quad \frac{4}{10} =$ 0.4

$\frac{45}{100} =$ 0.45 $\quad \frac{40}{100} =$ 0.40 $\quad \frac{7}{10} =$ 0.7 $\quad \frac{3}{10} =$ 0.3

$\frac{2}{10} =$ 0.2 $\quad \frac{99}{100} =$ 0.99 $\quad \frac{6}{10} =$ 0.6 $\quad \frac{81}{100} =$ 0.81

Write each decimal as a fraction.

0.4 = $\frac{4}{10}$ $\quad$ 0.11 = $\frac{11}{100}$ $\quad$ 0.9 = $\frac{9}{10}$ $\quad$ 0.67 = $\frac{67}{100}$

0.91 = $\frac{91}{100}$ $\quad$ 0.2 = $\frac{2}{10}$ $\quad$ 0.55 = $\frac{55}{100}$ $\quad$ 0.23 = $\frac{23}{100}$

0.3 = $\frac{3}{10}$ $\quad$ 0.52 = $\frac{52}{100}$ $\quad$ 0.19 = $\frac{19}{100}$ $\quad$ 0.08 = $\frac{8}{100}$