6.1 Percents and Decimals Notes

percent - a ratio comparing a number to 100 (percent = per 100)

Writing Percents as Decimals

Words Remove the percent symbol. Then divide by 100, or just move the decimal point two places to the left.

Numbers 23% = 23.% = 0.23

Write each percent as a decimal.

<u>Ex</u>: 52%

<u>Ex</u>: 7%

<u>Ex</u>: 100%

Ex: 0.7%

0.52

0.07

1

0.007

Writing Decimals as Percents

Words Multiply by 100, or just move the decimal point two places to the right. Then add a percent symbol.

Numbers 0.36 = 0.36 = 36%

Write each decimal as a percent.

Ex: 0.47

<u>Ex</u>: 0.663

Ex: 1.8

Ex: 0.009

47%

66.3%

180%

0.9%

Ex: On a math test, you get 46 out of a possible 50 points. Write this as a fraction (in simplest form), a decimal, and a percent.

$$\frac{440 \div 2}{50 \div 2} = \frac{23}{25}$$

$$\frac{440 \times 2}{50 \times 2} = \frac{92}{100} = \frac{92\%}{92\%}$$

$$\frac{92\%}{50} = \frac{0.92}{0.92}$$
or
$$\frac{0.92}{440.00}$$

Try These:

Write each decimal as a percent and each percent as a decimal.

(9) Write 85 out of 100 points as a <u>fraction</u> (in simplest form), a <u>decimal</u>, and a <u>percent</u>.