7.3 Percents and **Decimals**

Students will be able to use decimals to solve percent problems.

Percents and Decimals

To write a **decimal** as a **percent**, move the decimal point two places to the right and write a percent sign.

1.78

To write a **percent** as a **decimal**, move the decimal point two places to the left and remove the percent sign.

Writing Decimals as Percents

0.055 0.62

★1.34 *0.725

> 0.52 100%

Writing Percents as Decimals

93% 25% .25

00.3% 0.0.05% .000

330% 125%

Writing Fractions as Percents

You can write a fraction as a percent by first writing the fraction as

$$\frac{2}{3}$$
 1666 $\frac{5}{4}$ 125 \sim 66.7% 125% $\frac{6}{12}$ $\frac{1}{8}$ 125%

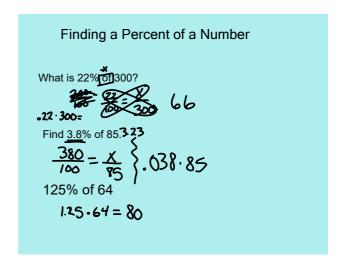
Fractions, Decimals, Percents

1/2 .5 50%

75% 3 4 . 75

 $\frac{20}{100} = \frac{1}{5}$

Fraction	Decimal	Percent
1/4	.25	25%
3	0.03	3%
号 100-133	1.12	112%



The African pygmy hippo is the smallest species of hippopotamus. Suppose a common adult hippo weighs 5,600 pounds, and an adult pygmy hippo's weight is 10.5% of the common adult hippo's weight. How much does the adult pygmy hippo weigh?

The winds on Neptune are the strongest on any planet in our solar system and can reach a speed of about 1500 miles per hour. The winds of a tornado near Bridge Creek, Oklahoma, in 1999 were about 21.2% as fast as the winds on Neptune. What was

the wind speed in the tornado?

$$\frac{318 \text{ mph}}{500} = \frac{318 \text{ mph}}{1500}$$

Homework

Pg. 358-360 #3-12, 14, 22, 26, 30, 34, 40, 42, 46, 50, 58, 60