Section 5.5 Notes: Percents

Key Vocabulary

Percent

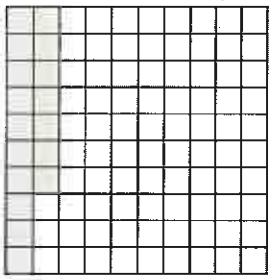
* a percent is a part-to whole ratio where the whole is 100

(a ratio where the denominator/bottom number is 100)

40% ⇒ 40 out of 100 ⇒ $\frac{40}{100}$

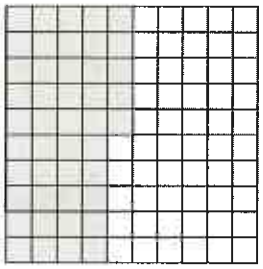
Key Concept: Writing Percents as a Fraction

Ex) Write 17% as a fraction in simplest form.



17% ⇒ $\frac{17}{100}$

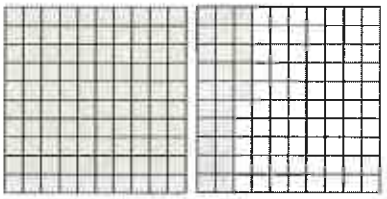
Ex) Write 45% as a fraction in simplest form.



45% ⇒ $\frac{45}{100} \div 5 \div 5$

$\frac{9}{20}$

Ex) Write 125% as a fraction or mixed number in simplest form.



$\frac{125}{100} \div 25 \div 25$

$\frac{5}{4}$ or $1\frac{1}{4}$

You Try:

1) Write 64 % as a fraction in simplest form.

64% ⇒ $\frac{64}{100} \div 4 \div 4$ $\frac{16}{25}$

2) Write 168% as a fraction or mixed number in simplest form.

168% ⇒ $\frac{168}{100} \div 4 \div 4$

$\frac{42}{25}$ or $1\frac{17}{25}$

Key Concept: Writing Fractions as a Percent

*Rewrite the fraction as an equivalent fraction with a denominator (bottom number) of 100, then write the numerator with the percent symbol (%)

Ex 1) Write $\frac{8}{25}$ as a percent.

$\frac{8}{25} \xrightarrow{\times 4} \frac{32}{100}$

32%

Ex 2) Write $\frac{37}{50}$ as a percent.

$\frac{37}{50} \xrightarrow{\times 2} \frac{74}{100}$

74%

You Try:

1) Write $\frac{7}{10}$ as a percent.

$\frac{7}{10} \xrightarrow{\times 10} \frac{70}{100}$

70%

2) Write $1\frac{3}{4}$ as a percent.

$1\frac{3}{4}$ can be written as $\frac{7}{4}$

$\frac{7}{4} \xrightarrow{\times 25} \frac{175}{100}$

$25 \times 7 = 175$

175%