11.2 Relate Percents to Fractions

How to Change Percents to Fractions:

1. Remove the % symbol.
2. Write the percent number as a fraction with a denominator of 100.
3. Divide by the GCF to simplify.

How to Change Fractions to Percents:

1. Write an equivalent fraction with a denominator of 100.

Example: Write each percent as a fraction in simplest form.

1.) $61\% = \frac{61}{100}$

2.) $2\% = \frac{2 \div 2}{100 \div 2} = \frac{1}{50}$

3.) $97\% = \frac{97}{100}$

4.) $85\% = \frac{85 \div 5}{100 \div 5} = \frac{17}{20}$

5.) $13\% = \frac{13}{100}$

6.) $45\% = \frac{45 \div 5}{100 \div 5} = \frac{9}{20}$

Example: Write each fraction as a percent.

7.) $\frac{41}{100} = 41\%$

8.) $\frac{1}{10} \cdot \frac{10}{10} = \frac{10}{100} = 10\%$

9.) $\frac{2}{5} \cdot \frac{20}{20} = \frac{40}{100} = 40\%$

10.) $\frac{8}{25} \cdot \frac{4}{4} = \frac{32}{100} = 32\%$

11.) $\frac{9}{10} \cdot \frac{10}{10} = \frac{90}{100} = 90\%$

12.) $\frac{2}{25} \cdot \frac{4}{4} = \frac{8}{100} = 8\%$

13.) Cassidy sells apples at the farmer's market. She sells $\frac{14}{20}$ of the apples she brings. She tells her friend she sold 56% of the apples. Is she correct? Explain.

$\frac{14}{20} \times \frac{5}{5} = \frac{70}{100} = 70\%$

No, because she actually sold 70% of the apples.

14.) Bryce has made 80% of his free throw shots this season. He tells his coach that if his percentage remains the same, he will make 16 of his next 25 free throw shots. Is Bryce correct? Explain.

$\frac{16}{25} \cdot \frac{4}{4} = \frac{64}{100} = 64\%$

No because that will only be 64% of his shots.