## Fraction to Percent (6.RP.3)

### Vocabulary

Fraction - a numerical quantity that is not a whole number.

Fraction - a comparison of a **part** to a whole.

Percent - a ratio comparing a **number** to 100.

### Steps:
Factors of 100 (1, 2, 4, 5, 10, 20, 25, 50, 100)

1.) If the denominator of the fraction is a factor of 100, divide 100 by the denominator.
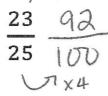2.) Multiply the numerator by the quotient of step #1.

Not a factor of 100
1.) Scale the fraction (ratio) down.
2.) Scale the fraction (ratio) up to 100 as the denominator.

### Guided Practice
Change the following fractions to percents.

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

$$\frac{6}{40} = \frac{3}{20} \xrightarrow{\times 5} \frac{15}{100}$$   **15%**

$$\frac{23}{25} \xrightarrow{\times 4} \frac{92}{100}$$   **92%**

$$\frac{20}{30} = \frac{2}{3} \xrightarrow{\times 33\frac{1}{3}} \frac{66\frac{2}{3}}{100}$$

$$\begin{array}{r} 33\frac{1}{3} \\ 3\overline{)100} \\ -9\downarrow \\ \hline 10 \\ -9 \\ \hline 1 \end{array}$$
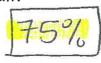
**$66\frac{2}{3}$%**

5.) Johnny got 21 out of 30 questions correct. What is his grade as a percent?

$$\frac{21}{30} = \frac{7}{10} \xrightarrow{\times 10} \frac{70}{100}$$   **70%**

6.) Sue got 12 out of 15 questions correct in science. What is her grade as a percent?

$$\frac{12}{15} = \frac{4}{5} \xrightarrow{\times 20} \frac{80}{100}$$   **80%**

6b.) What would be another equivalent fraction or ratio to her 12/15?

$$\frac{12}{15} = \boxed{\frac{4}{5}}$$

### Partner Talk
Sally earns a 6 out of 8 points. What is her grade as a percent?

$$\frac{6}{8} = \frac{3}{4} \xrightarrow{\times 25} \frac{75}{100}$$   **75%**

**Essential Question:** How are a fraction, a ratio, and a percent alike?

They can all represent the same amount.

Rate Yourself — Are you ready to move on?         YES   or   NO