Fraction —— Percentage

 To find the percentage of a portion that makes up a whole, begin by converting the fraction into decimal form by long division.

$$\begin{array}{c}
4 \\
5 \\
\hline
5
\end{array}$$
Fraction Form
$$\begin{array}{c}
0.8 \\
4.0 \\
\hline
40
\end{array}$$
Decimal Form

2. Multiply the decimal by 100% to convert to percentage notation.

Decimal Form Percentage Form

Mixed Numeral ——— Percentage

1. Convert the mixed numeral into its improper fraction form.

$$2\frac{1}{2} \longrightarrow \frac{5}{2}$$
Mixed Numeral Form Improper Fraction Form

2. Convert the fraction into decimal form by long division.

$$\begin{array}{c}
5 \\
\hline
2
\end{array}$$
2 | 5.0 | \longrightarrow 2.5

Fraction Form

$$\begin{array}{c}
10 \\
\hline
10
\end{array}$$
Decimal Form

3. Multiply the decimal by 100% to convert to percentage notation.

Decimal Form

Percentage Form

Percentage --- Decimal

Divide the percentage by 100% to change it into decimal notation.

35% ÷ 100% = 0.35

Percentage Form

Decimal Form

Fraction Percentage —— Decimal

1. Convert the fraction percentage into a decimal percentage by long division.

$$\begin{array}{c}
3\\
4\\
\end{array}$$
Fraction
Percentage Form

$$\begin{array}{c}
0.75\\
3.00
\end{array}$$
Decimal
Percentage Form
$$\begin{array}{c}
20\\
20\\
\end{array}$$

2. Divide the percentage by 100% to change it into decimal notation.

 $0.75\% \div 100\% = 0.0075$

Percentage Form

Decimal Form

Mixed Numeral Decimal Percentage

1. Convert the mixed numeral percentage into an improper fraction percentage.

$$70\frac{1}{2}\% \longrightarrow \frac{141}{2}\%$$

Mixed Numeral Percentagem Form

Improper Fraction Percentage Form

2. Convert the fraction percentage into a decimal percentage by long division.

$$\begin{array}{c}
141 \\
2 \\
Fraction
\end{array}$$
Percentage Form
$$\begin{array}{c}
070.5 \\
141.0 \\
\hline
14 \\
\hline
010
\end{array}$$
Decimal Percentage Form
$$\begin{array}{c}
070.5\% \\
\hline
14 \\
\hline
010
\end{array}$$

3. Divide the percentage by 100% to change it into decimal notation.

Percentage Form

Decimal Form