Review Exercise Set 22

Exercise 1: Write 60% as a fraction and as a decimal.

Exercise 2: Write 55% as a fraction and as a decimal.

Exercise 3: Write $\frac{1}{3}$% as a fraction.

Exercise 4: Write 1.45% as a decimal.

Exercise 5: Write 101.5% as a decimal.

Exercise 6: Write 0.0001 as a percentage.

Exercise 7: Write 0.64 as a percentage.
Review Exercise Set 22 Answer Key

Exercise 1: Write 60% as a fraction and as a decimal.

\[
60\% = \frac{60}{100} = \frac{\cancel{2} \times 3 \times \cancel{5}}{\cancel{2} \times 5 \times \cancel{5}} \times \frac{3}{5}
\]

\[
60\% = 0.60 \text{ or } 0.6
\]

To convert the percentage into decimal form move decimal point two places to the left. The trailing zero in the hundredths place can be included or left off.

\[
60 \quad \downarrow
\]

\[
0.60
\]

Exercise 2: Write 55% as a fraction and as a decimal.

\[
55\% = \frac{55}{100} = \frac{11}{2 \times 2 \times 5} = \frac{11}{20}
\]

\[
55\% = 0.55
\]

Exercise 3: Write \(53 \frac{1}{3}\)% as a fraction.

First, convert mixed number into an improper fraction

\[
53 \frac{1}{3} = \frac{(53 \times 3) + 1}{3} = \frac{160}{3}
\]

Next, convert percentage into a fraction by multiplying by \(1/100\)

\[
\frac{160}{3 \times 100} = \frac{2 \times 2 \times 2 \times 2 \times \cancel{3} \times \cancel{5}}{3 \times \cancel{2} \times \cancel{2} \times \cancel{5} \times \cancel{5}} \times \frac{3}{5} = \frac{8}{15}
\]

Exercise 4: Write 1.45% as a decimal.

\[
1.45\% = 0.0145
\]

Exercise 5: Write 101.5% as a decimal.

\[
101.5\% = 1.015
\]
Exercise 6: Write 0.0001 as a percentage.

$$0.0001 = 0.01\%$$

When converting a decimal into a percentage you will move the decimal point to the right two places and then add the percent symbol at the end.

\[
\begin{array}{c}
0.0001 \\
\uparrow \\
0.01\% \\
\end{array}
\]

Exercise 7: Write 0.64 as a percentage.

$$0.64 = 64\%$$