

## 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  $53\frac{1}{3}\%$  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.

$$60\% = \frac{60}{100} = \frac{\cancel{2}^1 \times \cancel{2}^1 \times 3 \times \cancel{5}^1}{\cancel{2}^1 \times \cancel{2}^1 \times 5 \times \cancel{5}^1} = \frac{3}{5}$$

$$60\% = 0.60 \text{ or } 0.6$$

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.

$$\begin{array}{c} 60. \\ \downarrow\downarrow \\ 0.60 \end{array}$$

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

$$55\% = \frac{55}{100} = \frac{\cancel{5}^1 \times 11}{2 \times 2 \times 5 \times \cancel{5}^1} = \frac{11}{20}$$

$$55\% = 0.55$$

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  $\frac{1}{100}$

$$\frac{160}{3}\% = \frac{160}{3} \times \frac{1}{100} = \frac{160}{300} = \frac{\cancel{2}^1 \times \cancel{2}^1 \times 2 \times 2 \times 2 \times \cancel{5}^1}{3 \times \cancel{2}^1 \times \cancel{2}^1 \times \cancel{5}^1 \times 5} = \frac{8}{15}$$

Exercise 4: Write 1.45% as a decimal.

$$1.45\% = \mathbf{0.0145}$$

Exercise 5: Write 101.5% as a decimal.

$$101.5\% = \mathbf{1.015}$$

Exercise 6: Write 0.0001 as a percentage.

$$0.0001 = \mathbf{0.01\%}$$

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.

$$\begin{array}{c} 0.0001 \\ \Downarrow \\ 0.01\% \end{array}$$

Exercise 7: Write 0.64 as a percentage.

$$0.64 = \mathbf{64\%}$$