



# **Fractions, Decimals, and Percents**

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**6<sup>th</sup> Grade Mathematics**  
**Mr. Wong**



# (Ex. 1) Write each percent as a fraction or mixed number.

20%    What does percent mean?

Out of 100

$$\frac{20}{100}$$

So, what does 20% mean?

20 out of 100

$$\frac{1}{5}$$

How do we write that as a fraction?

Reduce (factor tree)

# (Ex. 2) Write each percent as a fraction or mixed number.

220% What does percent mean?

Out of 100

$$\frac{220}{100}$$

So, what does 220% mean?

220 out of 100

$$2 \frac{1}{5}$$

How do we write that as a fraction?

Divide then Reduce

# (Ex. 3) Write each percent as a fraction or mixed number.

0.8%

$$\frac{8}{1000}$$

$$\frac{1}{125}$$

What does percent mean?

Out of 100

So, what does 0.8% mean?

8 out of 1000

How do we write that as a fraction?

Reduce



# (Ex. 4) Write each percent as a decimal.

1%

What does percent mean?

Out of 100

.01

So, move decimal 2 places to the left.



# (Ex. 5) Write each percent as a decimal.

**0.06%** What does percent mean?

Out of 100

**.0006** So, move decimal 2 places  
to the left?



**(Ex. 6) Write each percent as a decimal.**

**350.5%** What does percent mean?

Out of 100

**3.505** So, move decimal 2 places to the left?



# (Ex. 7) Write each decimal or fraction as a percent.

.33


What does percent mean?

Out of 100

33%

So, move decimal 2 places to the right.





# (Ex. 8) Write each decimal or fraction as a percent.

1.88      What does percent mean?

Out of 100

188%

So, move decimal 2 places to the right.

# (Ex. 9) Write each decimal or fraction as a percent.

$$\begin{array}{r} 7 \\ \hline 20 \end{array}$$
$$\begin{array}{r} 7 \quad \times \quad x \\ \hline 20 \quad 100 \end{array}$$
$$7 \cdot 100 = 20 \cdot x$$
$$700 = 20x$$
$$\begin{array}{r} \div \\ \hline 35\% \end{array} = \begin{array}{r} \div \\ \hline 35 \end{array}$$

What does percent mean?

Out of 100

So, set up a proportion.

Cross multiply.

# (Ex. 10) Write each decimal or fraction as a percent.

$$\frac{3}{8}$$

$$\frac{3}{8} \neq \frac{x}{100}$$

$$3 \cdot 100 = 8 \cdot x$$

$$300 = 8x$$

$$\begin{array}{r} \div 8 \\ 300 \\ \hline \end{array} \quad \begin{array}{r} \div 8 \\ 8x \\ \hline \end{array}$$

$$37.5\% = x$$

What does percent?

Out of 100

So, set up a proportion.

Cross multiply.