

Writing an Amount as a Percent Value



In this tutorial, I'll explore various solution paths for solving the following type of percent problem...

What percent of 5 is 3?

I'll begin by thinking about what this problem is asking me to solve.

- How might I rewrite this problem to help explain what I'm being asked to solve for?

What percent of 5 is 3?

- How could I use a fraction to rewrite and illustrate this problem in a different way?

What percent of 5 is 3?

3 is what percent of 5?

- How would I explain the meaning of percent?

What percent of 5 is 3?

3 is what percent of 5?

What is $\frac{3}{5}$ written as a percent?



- How would I use this statement to explain how I could solve... *what percent of 5 is 3?*

- How would I explain and demonstrate writing my equivalent fraction out of 100?

$$\frac{3}{5} = \frac{\boxed{?}}{100}$$

- How does writing an equivalent fraction *out of 100* allow me to determine a percent value?
- How would I summarize my solution path for solving... *what percent of 5 is 3?*

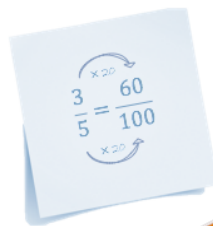
I'll try solving a new problem using the same approach as the previous example.

- How would I use a fraction to explain and illustrate this problem?

What percent of 12 is 9?

I'm ready to calculate my equivalent fraction out of 100... similar to the previous problem.

- How is my solution path at this step different to the previous problem?




$$\frac{9}{12} = \frac{\boxed{\quad}}{100}$$



I'll need to consider another solution path for solving... *what percent of 12 is 9*. I'll begin by simplifying the fraction $\frac{9}{12}$.


- How would I explain and demonstrate simplifying the fraction $\frac{9}{12}$?



$$\frac{9}{12} = \frac{\square}{100}$$

I've simplified the fraction shown in the original problem... $\frac{9}{12} = \frac{3}{4}$

- How would I explain and demonstrate the next step in my solution?



$$\frac{9}{12} = \frac{3}{4} = \frac{\square}{100}$$

- How does writing an equivalent fraction *out of 100* allow me to determine a percent value?

- How would I summarize my steps for solving... *what percent of 12 is 9*?


$$\frac{9}{12} = \frac{3}{4} = \frac{75}{100} = 75\%$$



I'll explore one more example...

What percent of 8 is 5?

- How would I explain and illustrate this problem using a fraction?
- Why does the fraction $\frac{5}{8}$ require a different solution path compared to the previous problems?
- How would I explain and demonstrate writing the fraction $\frac{5}{8}$ as an equivalent decimal?


$$\frac{5}{8} = \frac{\square}{100}$$

- How would I explain and demonstrate completing my solution for... *what percent of 8 is 5?*

$$\frac{5}{8} = 0.625$$

- How would I summarize my solution path for solving... *what percent of 8 is 5?*

$$\frac{5}{8} = \frac{0.625}{1} = \frac{62.5}{100} = 62.5\%$$

Writing an Amount as a Percent Value

Which statements do I feel confident explaining and demonstrating?

Which statements do I not feel confident explaining and demonstrating?

- ✓ I can explain the meaning of percent
- ✓ I can illustrate a percent value as the numerator of a fraction with denominator 100
- ✓ I can explain and demonstrate how I write equivalent fractions
- ✓ I can explain and demonstrate how I simplify a fraction
- ✓ I can explain and demonstrate how I write a fraction as an equivalent decimal
- ✓ I can explain and demonstrate how I write a decimal as a percent value