

Calculating Percent

A soccer team concluded the season with 18 wins, 4 draws and 8 losses. I'll explore solution paths for representing the results as percent values.

- How would I explain this initial step of my solution path?



Wins 18
Draws 4
Losses 8

30

I'll represent the number of wins as a percent value.

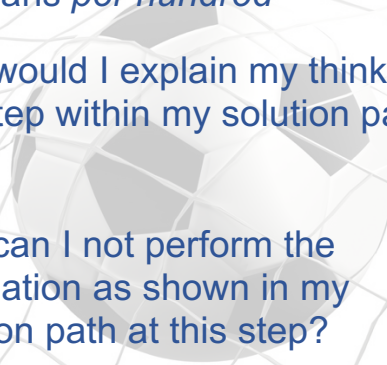
- Why would I begin by writing the fraction $\frac{18}{30}$?

18

30

Percent means *per hundred*

- How would I explain my thinking at this step within my solution path?
- Why can I not perform the calculation as shown in my solution path at this step?
- How could I adjust my solution to make this calculation possible?



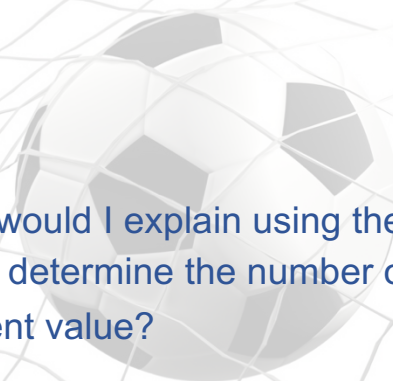
$\frac{18}{30} = \frac{?}{100}$

Lab + 6K
Lab + 6K



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

$$\frac{18}{30} = \frac{3}{5}$$



- How would I explain using the fraction $\frac{60}{100}$ to determine the number of wins as a percent value?

$$\frac{18}{30} = \frac{3}{5} = \frac{60}{100}$$



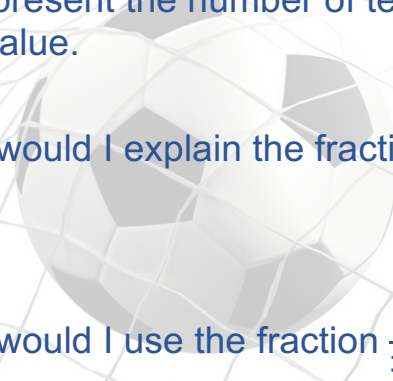
Next, I'll represent the number of team losses as a percent value.

- How would I explain the fraction $\frac{8}{30}$?

Wins 18
Draws 4
Losses $\frac{8}{30}$

- How would I use the fraction $\frac{8}{30}$ to calculate a percent value?

$$\frac{8}{30}$$



It's not possible to write the fraction $\frac{8}{30}$ as an equivalent fraction out of 100.

- How would I explain adjusting my solution?

$$\frac{8}{30} = \frac{?}{100}$$

- How would I explain and demonstrate writing the fraction $\frac{8}{30}$ in decimal form?

$$\frac{8}{30}$$

- How would I explain and demonstrate writing a decimal as a percent value?

$$0.2\bar{6}$$

A soccer team won 60% of all games played and lost 27%.

- How would I use these values to determine the percent of games tied?

Calculating Percent



Which statements do I feel confident explaining and demonstrating?

Which statements do I not feel confident explaining and demonstrating?

✓ I can explain why a percent value can be written as a fraction of 100

✓ I can demonstrate writing an equivalent fraction of 100

✓ I can explain and demonstrate how I would simplify a fraction to lowest terms

✓ I can explain and demonstrate how I would write a fraction as an equivalent decimal value

✓ I can explain and demonstrate how I would write a decimal as a percent value