

# Converting Decimals to Fractions

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# Where do you see decimals out in the community?



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# What does it mean for a decimal to terminate?

- It is a decimal that has a last digit and ends
- How do you think we can convert decimals into fractions?
- The first way is by just saying the decimal in words and then writing it in fraction form.
  - For example: 0.2, 0.6, 0.15

# Another way to convert decimals to fractions

- The second way to convert a decimal is by using simple math
- To do this we start by moving the decimal point to the right until we get a whole number
- We then use that number as the numerator, and we have to raise 10 to however number of decimal places we moved the decimal point.
- Finally, we simplify if possible and then we are done.

# Example time

- 0.5
- 0.28
- 0.567
- 0.7896

# What if there is a whole number in front of the decimal place?

- This is the same process as before, but the only difference is that the answer will be a mixed number instead of just a fraction.
- For example: 3.25
- For this one we will have the mixed number:

# More Examples

- 5.546
- 9.12
- 13.52

# Word Problem

- Two protected bird species are the whooping crane and the piping plover. How many times greater is the weight of the whooping crane than the weight of the piping plover?
  - Whooping Crane weight: 246.25
  - Piping Plover weight:  $1 \frac{7}{8}$ .