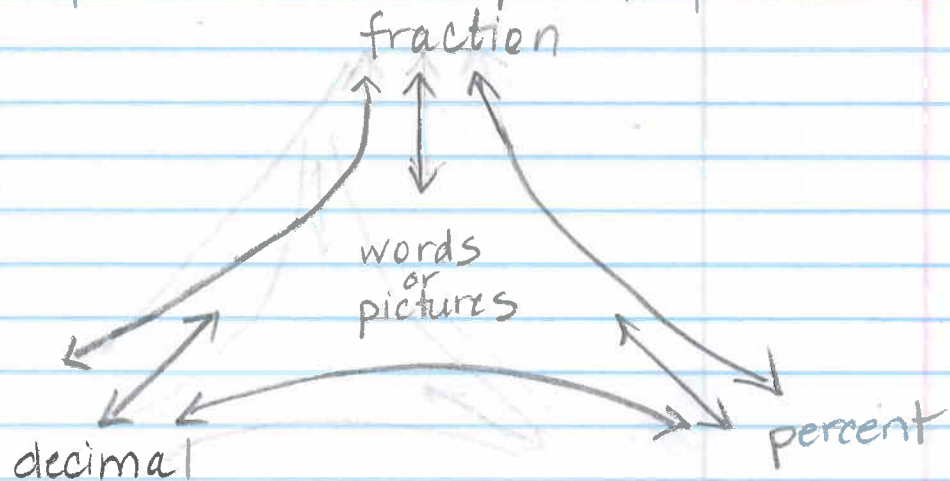3.1.4 Multiple Representations of a Portion

Essential Question: How will I apply methods representing portions as percents, fractions, and decimals to the standard algorithm for adding and subtracting decimals?

BIG IDEAS:	
Web	a diagram that shows multiple representations to represent portions of a whole

Representations of a Portion

Percents	A percent is one way to write a portion of 100. It can always be written as a fraction with a denominator of 100 and/or as a decimal.

Commonly Used Percents
$$100\% = \frac{100}{100} = 1$$
$$75\% = \frac{75}{100} = \frac{3}{4} = 0.75$$
$$50\% = \frac{50}{100} = \frac{1}{2} = 0.5$$
$$25\% = \frac{25}{100} = \frac{1}{4} = 0.25$$
$$10\% = \frac{10}{100} = \frac{1}{10} = 0.1$$
$$1\% = \frac{1}{100} = 0.01$$

Useful Percents to Remember
$$80\% = \frac{80}{100} = \frac{4}{5} = 0.8$$
$$60\% = \frac{60}{100} = \frac{3}{5} = 0.6$$
$$40\% = \frac{40}{100} = \frac{2}{5} = 0.4$$
$$20\% = \frac{20}{100} = \frac{1}{5} = 0.2$$
$$33\frac{1}{3}\% = \frac{33\frac{1}{3}}{100} = \frac{1}{3} = 0.\overline{3}$$
$$66\frac{2}{3}\% = \frac{66\frac{2}{3}}{100} = \frac{2}{3} = 0.\overline{6}$$