LessonTitle: Fractions, Decimals, Percents and Candy **Pre 2.5**

Utah State Core Standard and Indicators Pre-Algebra Standards 1, 3 Process Standards 1-5

Summary

In this lesson, students use candy and visual models to relate fractions, decimals and percentages.

Enduring Understanding	Essential Questions
We use fraction, decimal, and percent equivalents to describe most everything in the world. We must choose which representation suits our purposes best and enables clear communication about our work or problem.	How do you compare fractions, decimals and percentages?
Skill Focus	**Vocabulary Focus**
• Problem Solving • Fraction, decimal, percentage equivalence	

Assessment

Materials: Tangrams, Candy bars or candy for sharing (optional)

Launch

Explore

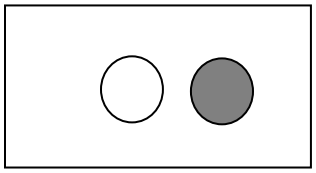
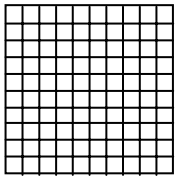
Summarize

Apply

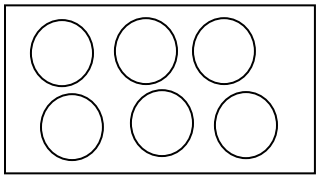
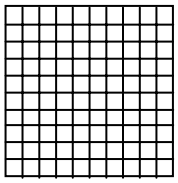
Directions:
You may wish to have candy available for dividing.

Pre 3.6 Fractions, Decimals & Percents with Candy

- You get 1/2 of some M&M candies or 1/2 of a candy bar.
  1/2 means divide the candy into _____ shares, keep___ share.

Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

- You get 1/3 of some M&M candies or 1/3 of a candy bar.
  1/3 means divide the candy into _____ shares, keep___ share.

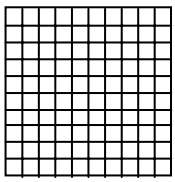
Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

What is the problem with 1/3 on the grid and with money? _____

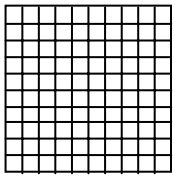
How should we deal with that problem? _____

- You get 2/3 of some M&M candies or 2/3 of a candy bar.

  2/3 means divide the candy into _____ shares, keep___ shares.

Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

- You get 1/4 of some M&M candies or 1/4 of a candy bar.
  1/4 means divide the candy into _____ shares, keep___ share.

Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

- You get 3/4 of some M&M candies or 3/4 of a candy bar.
  3/4 means divide the candy into _____ shares, keep___ share.

Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

- You get 1/5 of some M&M candies or 1/5 of a candy bar.
  1/5 means divide the candy into _____ shares, keep___ share.

Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

- You get 2/5 of some M&M candies or 2/5 of a candy bar. 2/5 means divide the candy into _____ shares, keep___ share.

Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

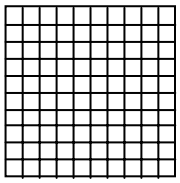
What is the pattern of the 5ths? 1/5 = 0.____ 2/5 = 0.____ 3/5 = 0.____ 4/5 = 0._____

- You get 1/6 of some M&M candies or 1/6 of a candy bar.
  1/6 means divide the candy into _____ shares, keep___ share.

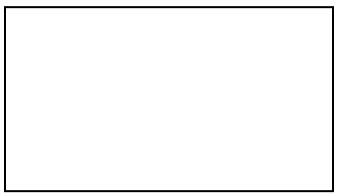
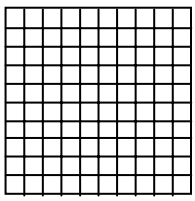
Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

What is the problem with 6ths on the grid?_____How shall we deal with that problem? _____

- You get 5/6 of some M&M candies or 5/6 of a candy bar.
  5/6 means divide the candy into _____ shares, keep___ share.

Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

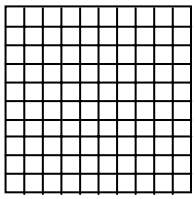
- You get 1/8 of some M&M candies or 1/8 of a candy bar.
  1/8 means divide the candy into _____ shares, keep___ share.

Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

What do you notice about 2/8? (hint: look back) _____

What other 8ths fractions have already been done?_____

- You get 3/8 of some M&M candies or 3/8 of a candy bar.
  3/8 means divide the candy into _____ shares, keep___ share.

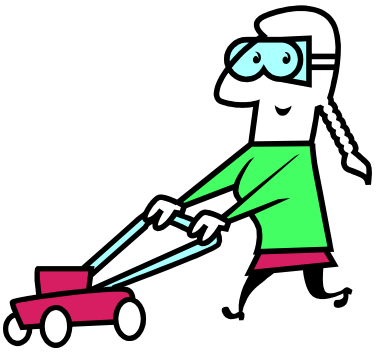
Show the shares. Color in what you keep.	Color in the grid as if it was a candy bar.	On the grid, you Colored in…..	Value of your share $0.____
		_____10ths _____100ths _____1000ths	Your share is _____ %

What is the pattern of the 8ths? 1/8 = 0.____ 2/8 = 0.____ 3/8 = 0.____ 4/8 = 0.____

5/8 = 0.____ 6/8 = 0.____ 7/8 = 0.____ 8/8 = ____

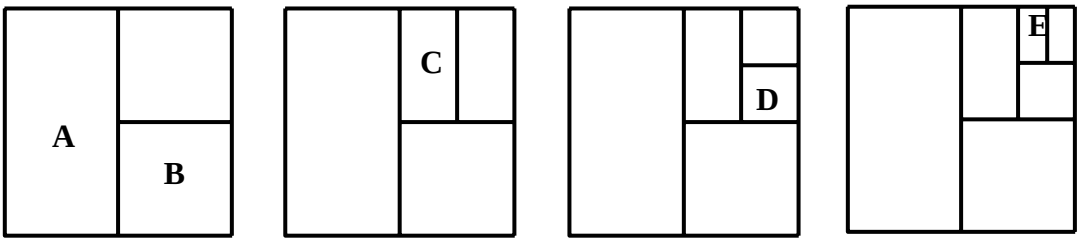
Pre 2.5 **Assessment**

Lawn Mowing



You decide to mow your lawn as pictured below. On the first day you mow half the yard. On the second day you mow half of what's left. On the third day you mow half of what's left.

What fraction and percent of the lawn does each lettered area below represent?



A = ____ = ____% **B = ____ = ____%** **C = ____ = ____%**

D = ____ = ____% **E = ____ = ____%**

Show your work for the problems below.

How much of the lawn will be mowed in 3 days? _____ = _____%

How much of the lawn will be mowed in 4 days? _____ = _____%

How much of the lawn will be mowed in 5 days? _____ = _____%

How much of the lawn will be mowed in 6 days? _____ = _____%

How many days will it take you to mow the entire yard using this method?