***FEEDING FRACTIONS***

***Standards***: ***Math*** 3.NF.3, 4.NF.1 ***Science*** 5.L.4B

The number one way organisms are connected in an **ecosystem** is through the **food chain**! Every food chain has **producers** and **consumers**. Algae are an example of producers. Animals like sea urchins and Emerald crabs are consumers. Both of these animals enjoy eating algae. This makes them herbivores.

Some scientists study plants and animals and their place in the food chain. Alyssa Demko from the College of Charleston is one of them. She studies what sea urchins and Emerald crabs like to eat and how much they eat. When Alyssa wants to count how much Emerald crabs eat, she uses **FRACTIONS**!



Let’s practice counting how much algae this Emerald crab consumed off of a mesh screen.

**White** = algae eaten **Green** = algae leftover on screen

**Example:**

1. What is the total number of mesh squares? **16**
2. How many squares of algae did the crab eat? (*Count the white squares*) **8**
3. What fraction of squares did the crab eat?
4. Write the above fraction in its simplest form:
5. Write two equivalent fractions of the algae consumed. and

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**16**

**32**

**2**

**4**

**1**

**2**

**8**

**16**

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1. Fraction eaten:
2. Simplest form:
3. Two equivalent fractions:

2.

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1. Fraction eaten:
2. Simplest form:
3. Two equivalent fractions:

3.

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1. Fraction eaten:
2. Simplest form:
3. Two equivalent fractions:

4.

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1. Fraction eaten:
2. Simplest form:
3. Two equivalent fractions:

5.

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1. Fraction eaten:
2. Simplest form:
3. Two equivalent fractions:

6.

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1. Fraction eaten:
2. Simplest form:
3. Two equivalent fractions:

8.

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1. Fraction eaten:
2. Simplest form:
3. Two equivalent fractions:

7.

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1. Fraction eaten:
2. Simplest form:
3. Two equivalent fractions: