3. Suppose the area of the figure below represents the BMU.



- a.) What type of model is this?
- b.) Show 21/2.

- c.) In your drawing for 2½, are your hexagons touching or not? Does it matter?
- d.) Show 1/4.

Area

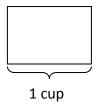
- 4. Represent each rational number below using an area, linear, and discrete model. Make sure to label in each diagram what you are using to represent the BMU (or, "1").
- a. $\frac{4}{5}$ Area Linear Discrete
- b. $\frac{5}{3}$

Linear

Discrete

Improper and Mixed Fractions Using Other Models

1. a) Your mom is going to bake a cake for your birthday. The recipe calls for $2\frac{3}{4}$ cups of flour. Draw a picture for $2\frac{3}{4}$ cups of flour if the rectangle below represents 1 cup.

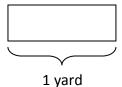


- b) Complete the following: $2\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$
- c) Rewrite $2\frac{3}{4}$ as an improper fraction. $2\frac{3}{4} = ---$
- 2. a) Julie was getting ready for a charity run. She walked $5\frac{7}{8}$ kilometers during her practice run. Draw a picture for $5\frac{7}{8}$ kilometers if the line segment below represents 1 kilometer.



- b) Complete the following: $5\frac{7}{8} = \frac{}{8} + \frac{}{8} +$
- c) Rewrite $5\frac{7}{8}$ as an improper fraction. $5\frac{7}{8} = ---$

3. a) To make a quilt, Marley needed $\frac{34}{5}$ yards of fabric. Draw a picture for $\frac{34}{5}$ yards if the rectangle below represents 1 yard.



b) Complete the following:

- c) Rewrite $\frac{34}{5}$ as a mixed fraction. $\frac{34}{5}$ =
- 4. a) At the last barbeque, Marlin cooked $\frac{17}{3}$ pounds of ground beef (every hamburger was 1/3 of a pound). Draw a picture of $\frac{17}{3}$ if the three circles below represent 1 pound of meat.



b) Looking at your picture above, what is the mixed fraction equivalent to $\frac{17}{3}$?