

Subtraction Involving Mixed Numbers

Math 4



If you had one whole cookie, and you had to share it with a friend. How many pieces would you have to cut it into? _____

You can cut it in half. 1 whole cookie is equal to 2 halves. $2/2$.

Now, if you have 2 whole cookies and you share 1 half of a cookie with 3 friends, how much cookie will you have left?

Use the drawing to help: Shade in the pieces that you shared with 3 friends, then see how much cookie is left.



The equation for this is: $2 - 3/2 =$ _____

Now what if you have 2 whole cookies, and you had to cut them all into fourths. Each cookie would have _____ pieces.

How many pieces of cookie are there altogether? _____

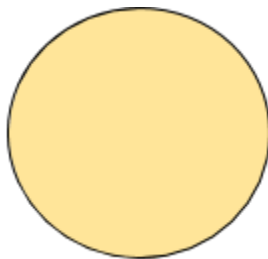
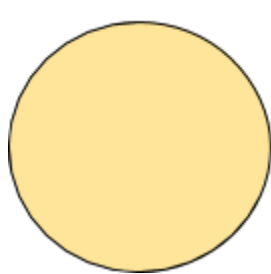
If you gave away 5 of those pieces, how much cookie is left?
Use the model to help. Then write the equation.



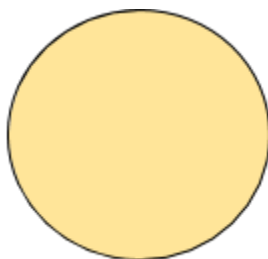
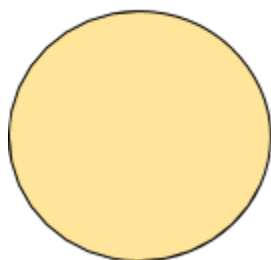
Equation =

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On the circles provided, model the following equations from class: (Tortillas)



$$2 - 1 \frac{1}{4} = \frac{3}{4}$$



$$8/4 - 5/4 = 3/4$$

How are these the same ? different?

Rewrite the following mixed numbers as improper fractions:

$2 \frac{1}{2} =$

$1 \frac{3}{4} =$

$2 \frac{1}{3} =$

What is the mixed number for : $7/4 =$

Stations

Be sure to record your answers for each station on this sheet.

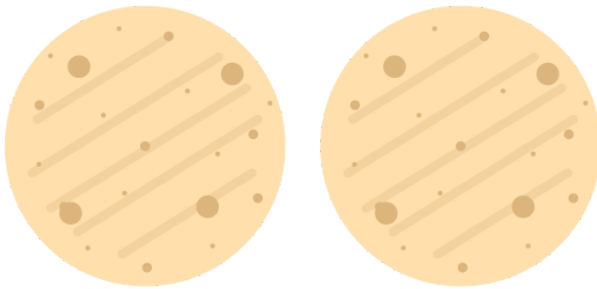
With your group, choose one problem to model on a blank piece of paper to present to the class.

Tortilla Station: Using the tortillas provided, cut them or use pre-cut tortillas to model each equation.

Sketch your model

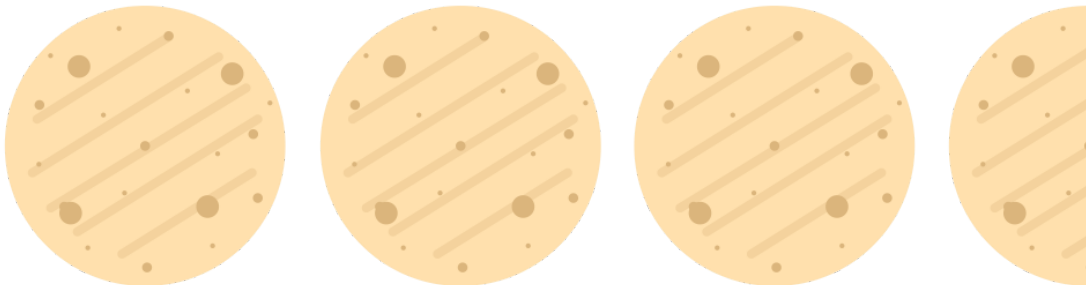
Write and solve the equation.

1. You have 2 tortillas. You give $\frac{3}{4}$ of a tortilla away. How much do you have left?



Equation:

2. You have 3 and $\frac{1}{2}$ tortillas. You serve 2 servings of $\frac{3}{4}$ of a tortilla each. How much do you have left?

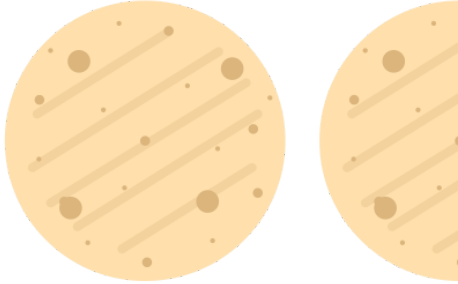


Equation:

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3. You have $1\frac{1}{2}$ tortillas. You serve 1 serving of $\frac{3}{4}$ of a tortilla. How much do you have left?



Equation:

4. You have 3 whole tortillas and serve $\frac{3}{8}$ of a tortilla to 4 different people. How much tortilla do you have left?

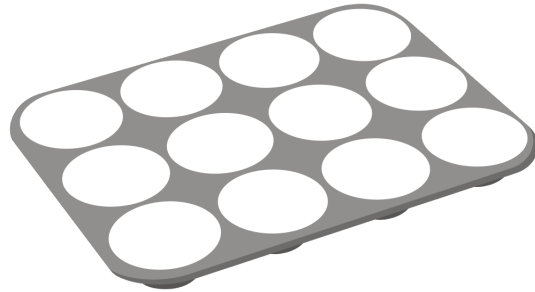
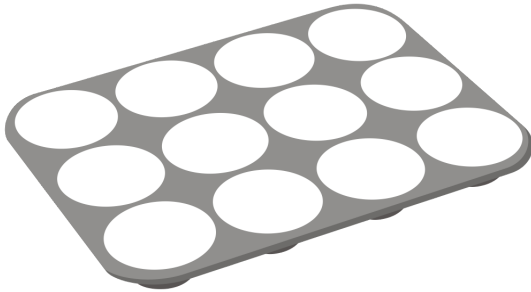


Equation:

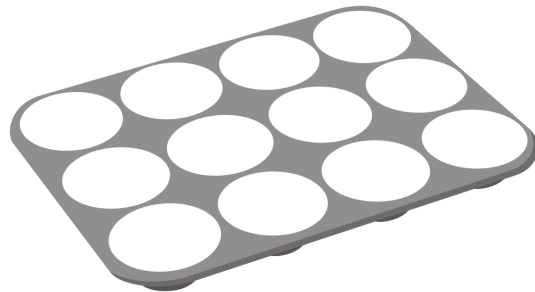
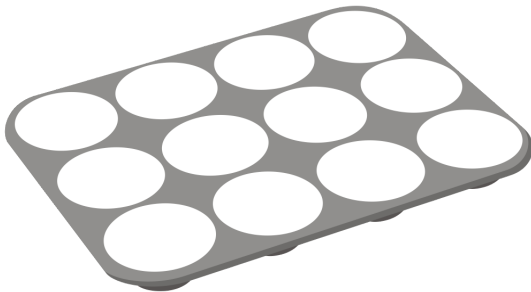
Cupcake Station

Using the cupcake tins and liners provided, fill the tins and then take out liners to model your subtraction. Shade your answer model in the diagrams provided.

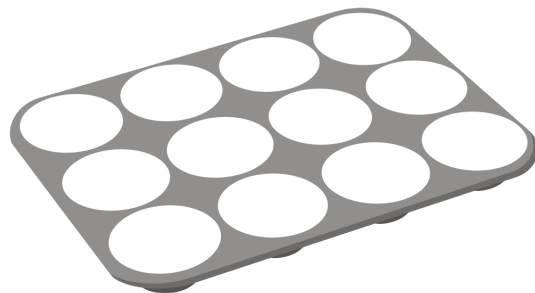
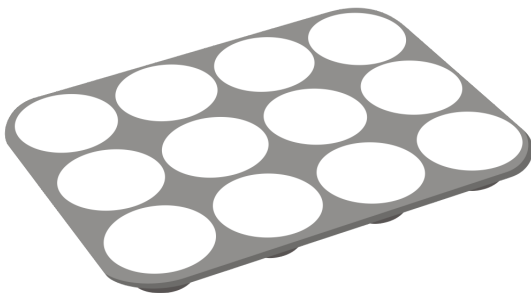
1. $2 - \frac{1}{2} =$



2. $2 - \frac{5}{8} =$

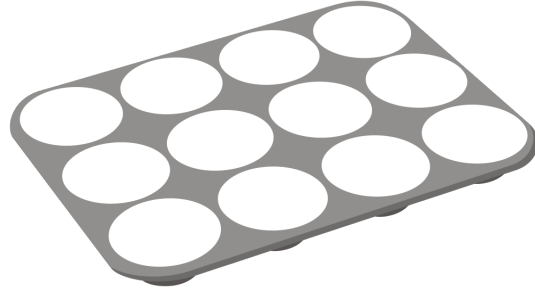
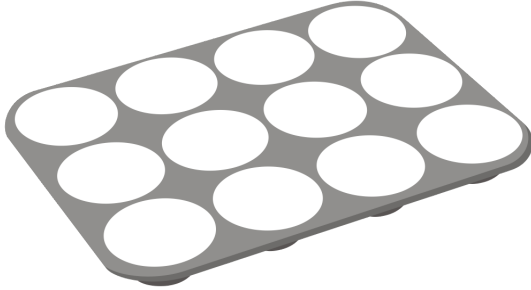


3. $2 - 1\frac{1}{8} =$

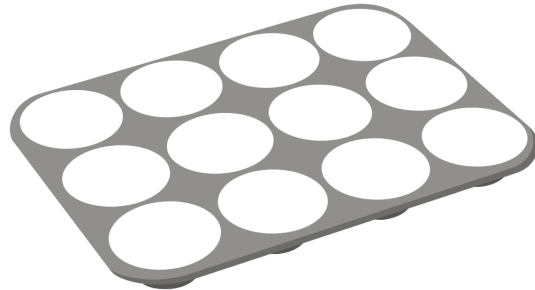
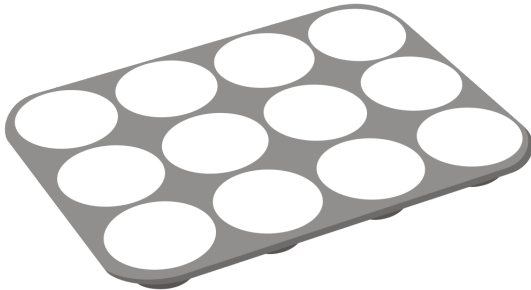


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4. $2 - 14/12$



5. $2 - 1 \text{ and } 6/12$



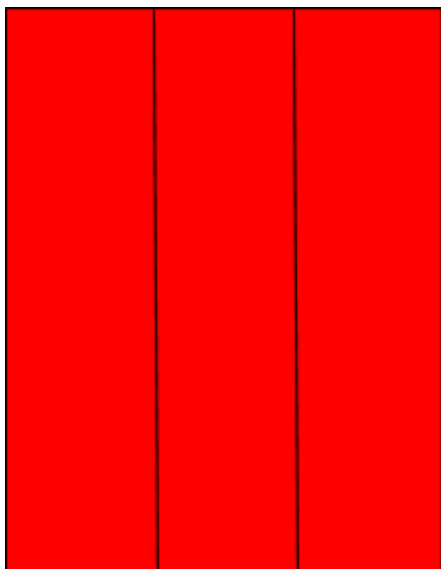
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Construction Paper Fractions

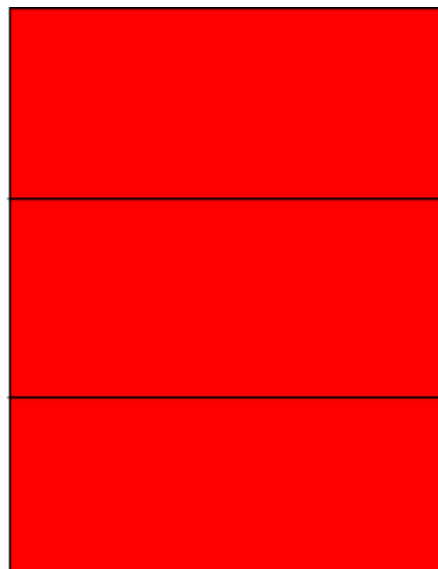


Measure your construction paper . It is 9 inches by 12 inches. You can cut them into 3 inch long strips, or 4 inch wide strips.

Cut the paper into 3 equal strips like this - choose one direction.



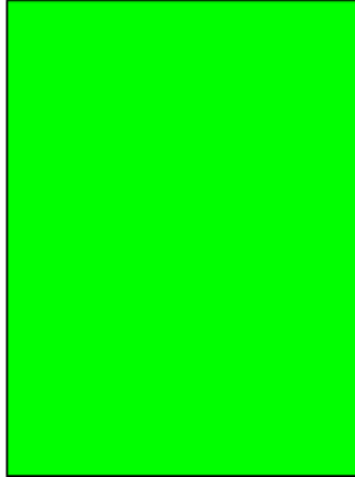
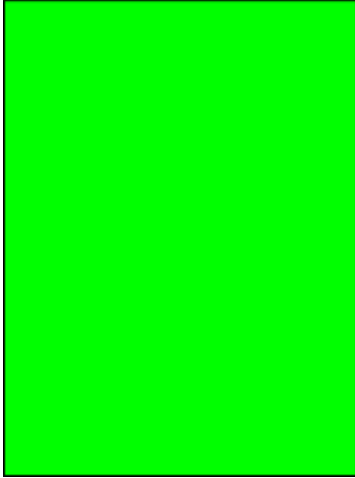
or



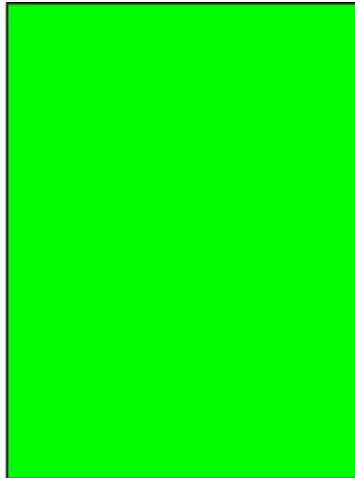
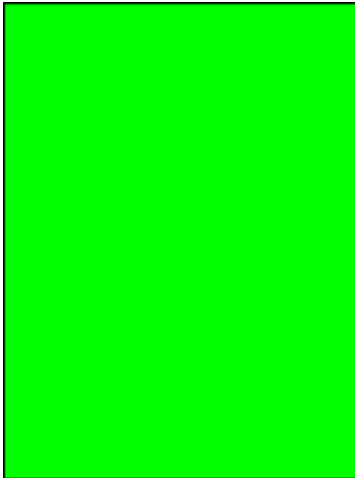
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Model and solve the following equations:

1. $2 - \frac{1}{3} =$

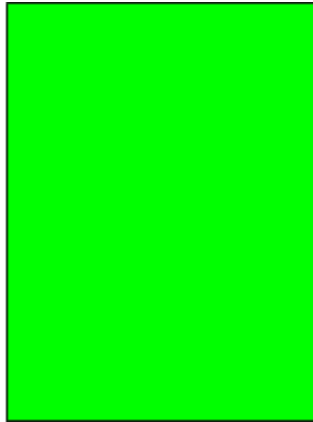
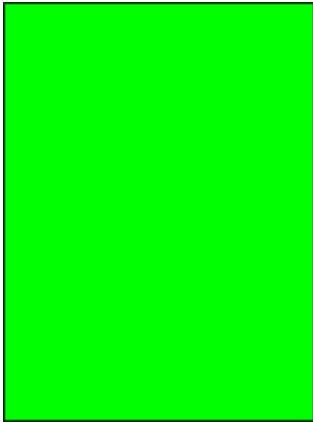


2. $2 - 1\frac{1}{3} =$

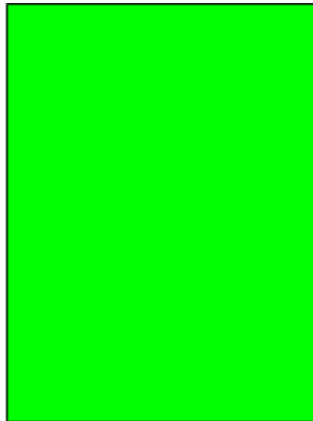
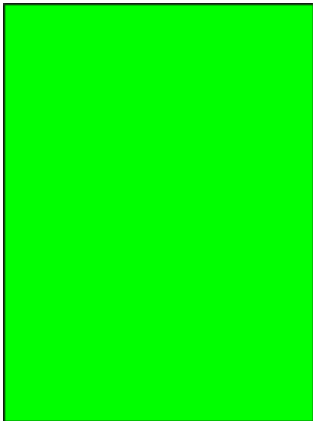


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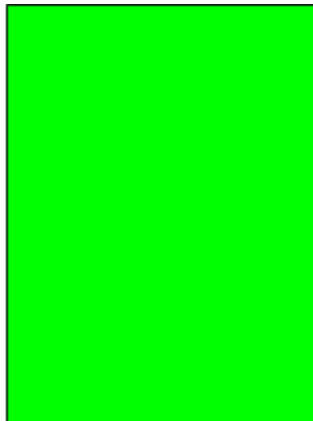
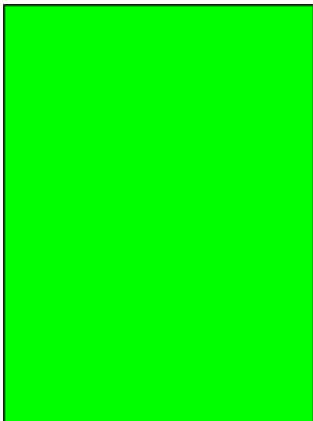
3. $2 - \frac{2}{3} =$



4. $3 - 2\frac{2}{3} =$



5. $3 - 1\frac{2}{9} =$



Create your own!

Name: _____ Period: _____ Date: _____

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Answer these questions to prepare for your presentation.

- Which station has the smallest pieces?
- Do you always have to cut it up into pieces?
- How many pieces is a whole tortilla if you are subtracting eighths?
- How many cupcake liners is equal to half of the tin?
- Model the following equation: $3\frac{1}{4} - \frac{3}{4}$
- What is the equation for the following model?

Now, use a blank piece of paper to draw, color and model 1 of the equations. You will present your model to the class and explain ways to solve it.