Collage - Lesson 3 - Personality Plus - SD

Introduction
In this activity you will use Fraction Mash to create a collage that represents you and your personality. Are you 1/2 sporty? Or 3/4 stylish? Maybe 7/25 grouchy? It all adds up to 1/1 you. And what if you want to increase your style game by 1/7, where are you going to pull from? What if you want to decrease your concentration on making robots by a third, what does that mean for the rest of your personality? This is a fun way to create a self portrait in the form of an infographic, and then tinker with the math that comprises you, as one remarkably whole being.

This is a Fraction Mash screenshot showing the process of creating a personality collage. This student chose running as a characteristic that makes up 2/25 of his personality.
Infographics

Infographics are visual images, such as a chart or diagram, that represent information or data. Pie charts, like the one pictured, are a great way to introduce students to the idea of infographics because they clearly visualize data (even if that data is estimated fractional makeup of someone’s personality).

If “Funny” gets reduced, how does that affect the rest of the infographic? Will “Charming” increase? Will a new category be needed? Students will get to make these personality choices as they familiarize themselves with creating and interpreting infographics.

Self Portraits

Artists have been creating self-portraits since the beginning of painting as an art form. How artists choose to represent themselves can be an expression revealing aspects of their personality.

In this collage example, the artist might be expressing that she lives in a city, rides bicycles, and loves the color pink. Ask students what details they might include in their own self portrait.
To do

Part 1

These instructions help to create your collage self portrait.

1. Start with a selfie. Make it one you like, and find good light so that the pic is nice and bright.

2. In the chart below, make a list of things you like, and parts of your personality that add up to the person you are. Obviously, you are a lot more complex than this simple list, so think of things that are important to you, and characteristics that most describe you.

3. Think about your list as the pieces that make you up as a whole. Circle the top eight and estimate each fractional component within you. Keep the denominator at 16 for all pieces. Example: If you have “charming” in your list, then it could be 7/16, 9,16, 3./16, etc.

Fractional components of my personality

<table>
<thead>
<tr>
<th>Objects/Places I like</th>
<th>Hobbies/Misc</th>
<th>My personality traits</th>
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<tbody>
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4. Now that you have 8 fractional parts that combine to make you, you’re ready to find images and take them to Fraction Mash and make your collage.

5. Either make sketches or find your 8 images online, save pics to your camera roll.

6. Start in Fraction Mash by importing or taking a new selfie on the left. On the right, import the first pic from your collection of 8.

7. Choose the squares grid with a denominator of 16.

8. Repeat until you have all 8 pieces added, formed to combine you. Be sure to save your image!
9. Answer the questions below.

Questions

1) Write the equation with fractions whose sum is 1/1, or you.

2) Did any pieces of your original selfie show in your final collage? What fraction?

3) Reduce your largest fraction and add that amount to one of the other pieces. What’s your new equation?

Part 2

Now that you know how to create a self portrait collage in Fraction Mash, you’re ready to get a bit more creative, use denominators and grids of your choosing.

1) Follow the same steps as in Part 1. You can use all or some of the same pieces of you, or add more.
2) This time, use different denominators, and keep track of each piece as you create mashups.

Questions

4) How many pieces of you are there in your final collage?

5) What is the equation of all your parts?

6) If you were to make yet another collage, but with characteristics of the kind of person you want to become, what would that equation be?
7) Solve the following three problems.

a)
\[ \frac{1}{2} + \frac{3}{16} + X = 1 \]

b)
\[ \frac{3}{25} + \frac{1}{4} + X = 1 \]

c)
\[ \frac{7}{25} + \frac{2}{9} + X = 1 \]

6) Choose one of the problems above and explain how it could be represented by a picture made with Fraction Mash? (Hint: It could involve a re-mix.)

7) How is the image you described in #6 like the images you made in this activity?
Sample image of a personality collage made in Fraction Mash