

TIPP&SEE Adding Fractions with Same Denominators

Objective: I can use variables in multiple lines of code.

Scratch Link: Adding Fractions with Same Denominators (<https://scratch.mit.edu/projects/210099188/>)

NAME		
Lesson 5-3A 		
SCRATCH ID	DATE	TIME

Start with **TIPP&SEE!**

Get a **TIPP** from the Project Page.

Read carefully:

Title


Instructions

Purpose

Play the project and write down the action(s) that happened for each event below.

① When I clicked  : _____

② When I clicked on  : _____

③ When I clicked on  : _____

④ How many times did the duck jump? _____

⑤ Write a fraction number sentence to represent the duck's jumps. _____

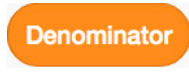
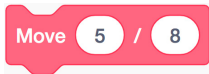
SEE Inside. Make changes, play, and observe closely to understand the code.

⑥ **Explore:** Click on the Fraction Circle **Sprite**, and look closely at the code. Circle your answers.

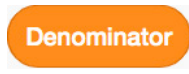
a. This block tells the duck how far to fly:



b. This block draws the tick marks on the number line:



c. These blocks have a place to enter the fraction's denominator. (You can circle more than one.)



TIPP&SEE Adding Fractions with Same Denominators (con't)

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⑦ Change the starting script so that the duck flies to the fraction $\frac{4}{12}$.

Fill in the script below to show what you did.

```

when clicked
  Setup
  Divide Number Line Into 1 Parts
  Move 1 / 1
  Move 1 / 1
  
```

⑧ In how many blocks did you have to change the denominator? _____

⑨ Circle one: This is the block I can use to represent the denominator in more than one place.

a. Divide Number Line Into 8 Parts Denominator Setup

b. Drag a Denominator variable block into each place the denominator is used in the script. Play the script. What happens? _____

⑩ Fix your script by adding a block to set the value of the variable. When your script is working, draw it below.

```

when clicked
  
```

⑪ **Think:** How could you change the script now to use a different denominator? Talk about it with a partner.

Fraction Sums

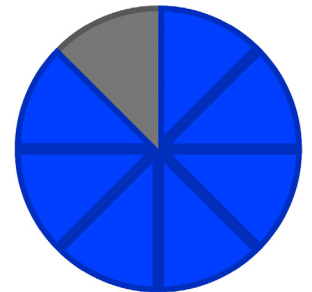
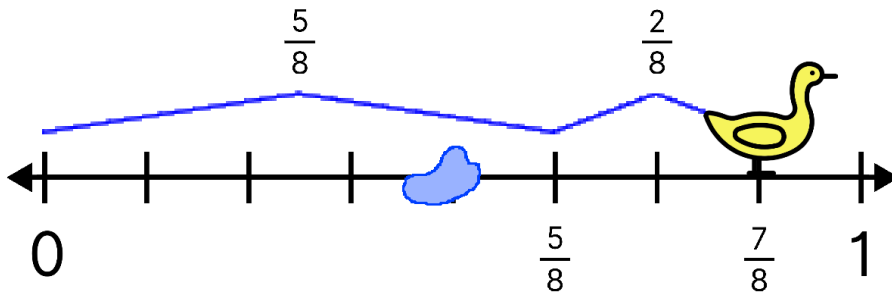
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Use the Scratch project to find fractions with the same denominator that add up to each sum. Be sure to help the duck avoid the pond! Fill in the blanks in each script and each number sentence to show what you did. Then draw the duck movement and the fraction circle pieces.

Code	Fraction A	+	Fraction B	=	Sum
------	------------	---	------------	---	-----

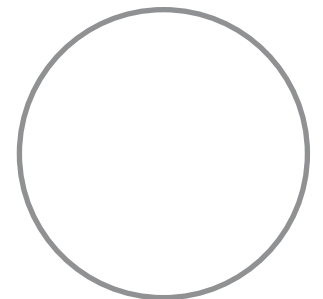
E.g. Find two fractions whose sum is $\frac{7}{8}$.

<pre> when clicked Setup Set Denominator to 8 Divide Number Line Into Denominator Parts Move 5 / Denominator Move 2 / Denominator </pre>	$\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$
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① Find two different fractions whose sum is $\frac{7}{8}$.

<pre> when clicked Setup Set Denominator to Divide Number Line Into Denominator Parts Move / Denominator Move / Denominator </pre>	$\frac{\quad}{8} + \frac{\quad}{8} = \frac{7}{8}$
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Fraction Sums (con't)

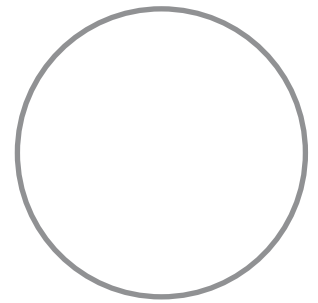
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Fill in the blanks in each script and each number sentence.
Then draw the duck movement and the fraction circle pieces.

Code	Fraction A	+	Fraction B	=	Sum
------	------------	---	------------	---	-----

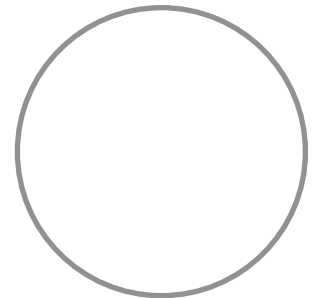
② Find two fractions whose sum is $\frac{4}{6}$.

<pre> when clicked Setup Set Denominator to [] Divide Number Line Into [Denominator] Parts Move [] / Denominator Move [] / Denominator </pre>	$\frac{\quad}{6} + \frac{\quad}{6} = \frac{4}{6}$
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③ Find two different fractions whose sum is $\frac{4}{6}$.

<pre> when clicked Setup Set Denominator to [] Divide Number Line Into [Denominator] Parts Move [] / Denominator Move [] / Denominator </pre>	$\frac{\quad}{6} + \frac{\quad}{6} = \frac{4}{6}$
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Fraction Sums (con't)

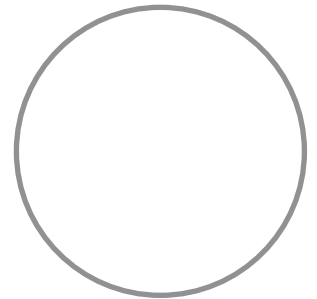
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Fill in the blanks in each script and each number sentence.
Then draw the duck movement and the fraction circle pieces.

Code	Fraction A + Fraction B + Fraction B = Sum
------	--

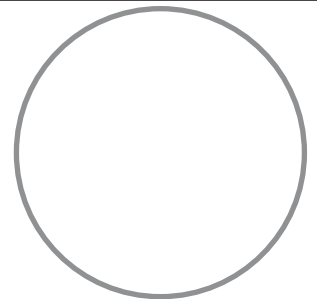
④ Find three fractions whose sum is $\frac{8}{12}$.

<pre> when clicked Setup Set Denominator to <input type="text"/> Divide Number Line Into <input type="text"/> Denominator <input type="text"/> Parts Move <input type="text"/> / Denominator Move <input type="text"/> / Denominator Move <input type="text"/> / Denominator </pre>	$\frac{\quad}{12} + \frac{\quad}{12} + \frac{\quad}{12} = \frac{8}{12}$
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⑤ Find three other fractions whose sum is $\frac{8}{12}$.

<pre> when clicked Setup Set Denominator to <input type="text"/> Divide Number Line Into <input type="text"/> Denominator <input type="text"/> Parts Move <input type="text"/> / Denominator Move <input type="text"/> / Denominator Move <input type="text"/> / Denominator </pre>	$\frac{\quad}{12} + \frac{\quad}{12} + \frac{\quad}{12} = \frac{8}{12}$
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Fraction Sums (con't)

NAME _____

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Fill in the blanks in each script and each number sentence.
Then draw the duck movement and the fraction circle pieces.

Code	Fraction A	+	Fraction B	+	Fraction B	=	Sum
------	------------	---	------------	---	------------	---	-----

⑥ Find three fractions whose sum is $\frac{3}{4}$.

<pre> when clicked Setup Set Denominator to [] Divide Number Line Into [Denominator] Parts Move [] / Denominator Move [] / Denominator Move [] / Denominator </pre>	$\frac{\quad}{4} + \frac{\quad}{4} + \frac{\quad}{4} = \frac{3}{4}$
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⑦ Create your own number sentence using three fractions whose sum is less than 1.

<pre> when clicked Setup Set Denominator to [] Divide Number Line Into [Denominator] Parts Move [] / Denominator Move [] / Denominator Move [] / Denominator </pre>	$\frac{\quad}{\quad} + \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$
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