TIPP&SEE
Slicing Sandwiches

Scratch Link: Comparing Fractions: Slicing Sandwiches (https://scratch.mit.edu/projects/210103535/)

Start with **TIPP&SEE**!   Get a **TIPP** from the Project Page.

Read carefully: **T**itle   **I**nstructions   **P**urpose

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

① When I clicked 🚩:

Top A Sa…	Top A Sa…	Bottom …	Bottom …	Nothing happened
talked	was sliced	talked	was sliced	

② When I pressed the spacebar:

Top A Sa…	Top A Sa…	Bottom …	Bottom …	Nothing happened
talked	was sliced	talked	was sliced	

③ When I clicked on the top sandwich:

a. The top sandwich split into _____ equal pieces. Then _____ of the pieces were shown.

b. The fraction of the top sandwich shown is: _____.

④ When I clicked on the bottom sandwich:

a. The bottom sandwich split into _____ equal pieces. Then _____ of the pieces were shown.

b. The fraction of the bottom sandwich shown is: _____.

⑤ At the end, which sandwich had more parts showing?

Top sandwich   Bottom sandwich
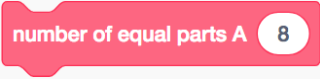
TIPP&SEE
Slicing Sandwiches (con't)
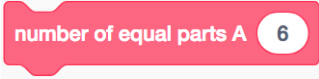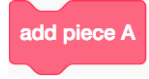
SEE Inside. Make changes, play, and observe closely to understand the code.

⑥ **E**xplore: Click on the [Top A Sa...] **S**prite, and make these changes.

Watch only the top sandwich for changes.

a. Change `repeat 3` to `repeat 4`. Run and watch.

b. Change `number of equal parts A 8` to `number of equal parts A 6`. Run and watch.

c. Remove `add piece A`. Run and watch.

d. Try other numbers in those blocks until you understand how they work.

⑦ **E**xplore: Circle your answer.

a. To get to the code that controls the bottom sandwich, you have to click on this Sprite.

| Top A Sa... | Bottom ... | Fraction A | Fraction B |

b. This block sets the size of each piece of the top sandwich:

`repeat 3`   `number of equal parts A 8`   `add piece A`
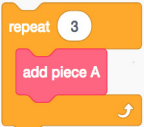
c. The number in this block is the same as the denominator:

`repeat 3`   `number of equal parts A 8`   `add piece A`
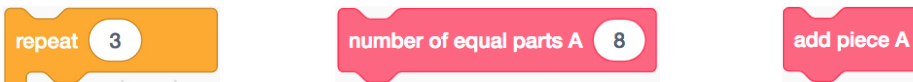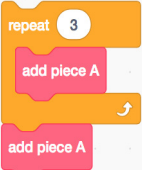
d. The number in this block is the same as the numerator:

`repeat 3`   `number of equal parts A 8`   `add piece A`
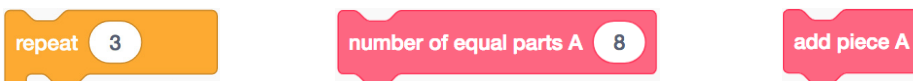
⑧ How many pieces will each code snippet show?

a._____   b._____   c._____   d._____

Same Denominators: Slicing Sandwiches

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Use the Scratch project to help you fill in the missing parts for each problem. Be sure to:
- Write the numbers in the blocks.
- Write the fractions.
- Write the comparison symbol.

	(Top) Sandwich A Code	Fraction A	Comparison Symbol	Fraction B	(Bottom) Sandwich B Code
	when this sprite clicked / number of equal parts A `8` / repeat `3` / add piece A	$\dfrac{3}{8}$	$<$	$\dfrac{5}{8}$	when this sprite clicked / number of equal parts B `8` / repeat `5` / add piece B
①	when this sprite clicked / number of equal parts A ( ) / repeat ( ) / add piece A	$\dfrac{3}{5}$			when this sprite clicked / number of equal parts B `5` / repeat `2` / add piece B
②	when this sprite clicked / number of equal parts A `6` / repeat `5` / add piece A			$\dfrac{5}{6}$	when this sprite clicked / number of equal parts B ( ) / repeat ( ) / add piece B
③	when this sprite clicked / number of equal parts A ( ) / repeat ( ) / add piece A	$\dfrac{4}{12}$		$\dfrac{7}{12}$	when this sprite clicked / number of equal parts B ( ) / repeat ( ) / add piece B
④	Make your own fraction comparison. / number of equal parts A ( ) / repeat ( )				number of equal parts B ( ) / repeat ( )

Same Denominators: Slicing Sandwiches (con't)

5   Copy the answers from the previous page.

A	?	B
$\dfrac{3}{8}$	$<$	$\dfrac{5}{8}$
$\dfrac{3}{5}$		
		$\dfrac{5}{6}$
$\dfrac{4}{12}$		$\dfrac{7}{12}$

6   Put it all together by filling in the blanks.

a.   [numerator A > numerator B]   A ___ B   if (numerator A > numerator B) then / set symbol to ◯

b.   [numerator A < numerator B]   A ___ B   if (numerator A < numerator B) then / set symbol to ◯

c.   [numerator A = numerator B]   A ___ B   if (numerator A = numerator B) then / set symbol to ◯