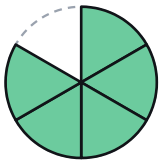
Names (group) _____ Date _____

Subtracting Fractions with Related Denominators

1 There was $\frac{5}{6}$ of a pizza left, and Luka ate $\frac{1}{3}$ of it. How much is left? Estimate, then check with the discs.



$$\frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{\square}{6} = \frac{\square}{6}$$

PART 1 Pizzeria

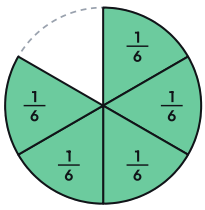
2 **In a group of four.** Cut out the order cards (page 2). Each student has a role. Roles move round after each order.

Chef	Guest	Cashier	Checker
holds the discs and builds the plate	reads the order card	writes the calculation	puts what is left on a whole disc

	Cashier's calculation	✓
1.	$\frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{\square}{6} = \frac{\square}{6}$	
2.	$\frac{1}{2} - \frac{3}{8} = \frac{\square}{8} - \frac{3}{8} = \frac{\square}{8}$	
3.	$\frac{3}{4} - \frac{5}{8} = \frac{\square}{8} - \frac{5}{8} = \frac{\square}{8}$	
4.	$\frac{7}{10} - \frac{1}{2} = \frac{7}{10} - \frac{\square}{10} = \frac{\square}{10}$	
5.	$\frac{2}{3} - \frac{5}{12} = \frac{\square}{12} - \frac{5}{12} = \frac{\square}{12}$	
6.	$1 - \frac{3}{4} = \frac{\square}{4} - \frac{3}{4} = \frac{\square}{4}$	

✂ Cut out the cards along the dashed line.

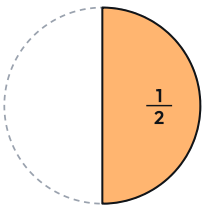
ORDER 1



There is $\frac{5}{6}$ of a pizza on the plate. The guest eats $\frac{1}{3}$ of it.

How much pizza is left on the plate?

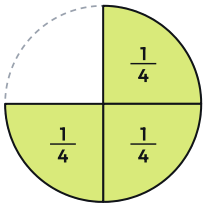
ORDER 2



There is $\frac{1}{2}$ of a pizza on the plate. The guest eats $\frac{3}{8}$ of it.

How much pizza is left on the plate?

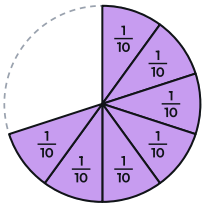
ORDER 3



There is $\frac{3}{4}$ of a pizza on the plate. The guest eats $\frac{5}{8}$ of it.

How much pizza is left on the plate?

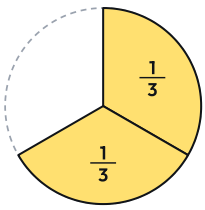
ORDER 4



There is $\frac{7}{10}$ of a pizza on the plate. The guest eats $\frac{1}{2}$ of it.

How much pizza is left on the plate?

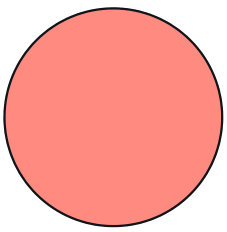
ORDER 5



There is $\frac{2}{3}$ of a pizza on the plate. The guest eats $\frac{5}{12}$ of it.

How much pizza is left on the plate?

ORDER 6



There is a whole pizza on the plate. The guest eats $\frac{3}{4}$ of it.

How much pizza is left on the plate?

Names (pair) _____ Date _____

PART 2 The missing part

3 **In pairs.** One student builds a fraction on the disc. The partner finds the piece that is missing to reach the given fraction. Write it as a subtraction and swap roles.

	Built	Target	Missing	Subtraction
1.	$\frac{7}{12}$	to one whole	$\frac{\square}{12}$	$1 - \frac{7}{12} = \frac{\square}{12} - \frac{7}{12} = \frac{\square}{12}$
2.	$\frac{5}{8}$	to $\frac{3}{4}$	$\frac{\square}{8}$	$\frac{3}{4} - \frac{5}{8} = \frac{\square}{8} - \frac{5}{8} = \frac{\square}{8}$
3.	$\frac{2}{6}$	to $\frac{1}{2}$	$\frac{\square}{6}$	$\frac{1}{2} - \frac{2}{6} = \frac{\square}{6} - \frac{2}{6} = \frac{\square}{6}$
4.	$\frac{3}{10}$	to $\frac{4}{5}$	$\frac{\square}{10}$	$\frac{4}{5} - \frac{3}{10} = \frac{\square}{10} - \frac{3}{10} = \frac{\square}{10}$
5.	$\frac{5}{9}$	to $\frac{2}{3}$	$\frac{\square}{9}$	$\frac{2}{3} - \frac{5}{9} = \frac{\square}{9} - \frac{5}{9} = \frac{\square}{9}$

Remember

If there is no piece to take away, **break a bigger piece into smaller pieces**, then take away pieces of the same size.

$$\frac{1}{2} - \frac{3}{8} = \frac{4}{8} - \frac{3}{8} = \frac{1}{8}$$

4 **Exit card.** Work it out.

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