

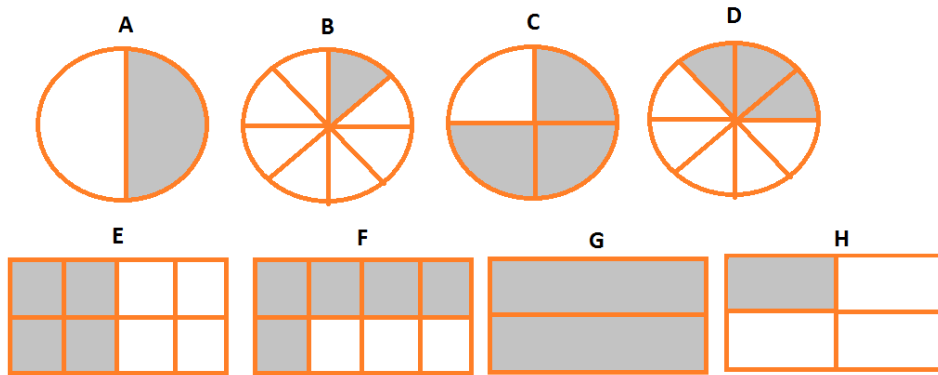
Fractions at a Pizza Party

MATH 3 B: UNDERSTANDING FRACTIONS

Pizza Fractions: Part 1

Eight friends went to a pizzeria for a pizza party. They each got to create their own personal pizza. They all started with the same amount of dough. Four of the children made round pizzas and four made rectangular pizzas. Each child chose how many slices he wanted his pizza cut into, and the chef cut the pizza into equal slices. Then the friends ate pizza until their bellies were full!

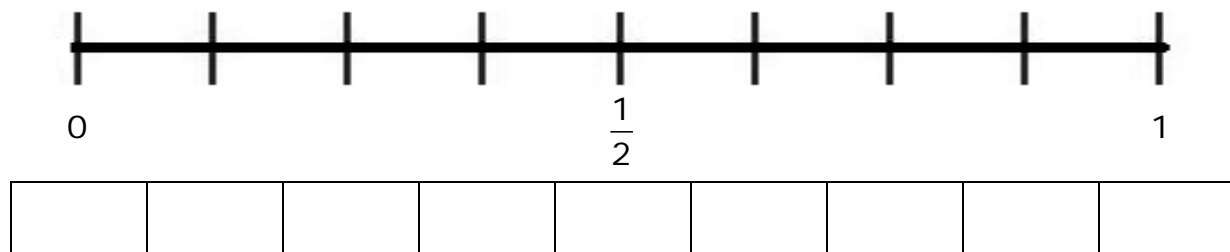
The friends' pizzas are shown in the picture. The gray, shaded areas represent the amount of pizza that was eaten. Use the information in the pictures to answer the exploration questions.



Identify the fraction of pizza that was eaten for each pizza pie.

Pizza	A	B	C	D	E	F	G	H
Fraction Eaten								

Show where these fractions are on the number line. Label the tick marks with the corresponding letter of the pizza.



Exploration

1. Which pizzas had the same amount eaten?

2. Which pizza had the least amount eaten? Which pizza had the most eaten? Explain your answers.

3. List the pizzas in order from the most eaten to the least amount eaten. Explain your answers.

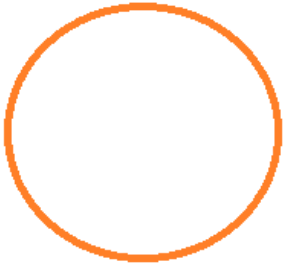
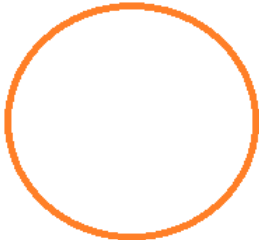


4. Which pizza was eaten completely? What fraction represents the whole eaten pizza? Explain your answer.

5. The pizzeria chefs want to box up the leftover pizza in as few boxes as possible. A box can hold a whole pizza, whether it is rectangular or round. How can the leftovers be boxed up as efficiently as possible? Explain your solution.

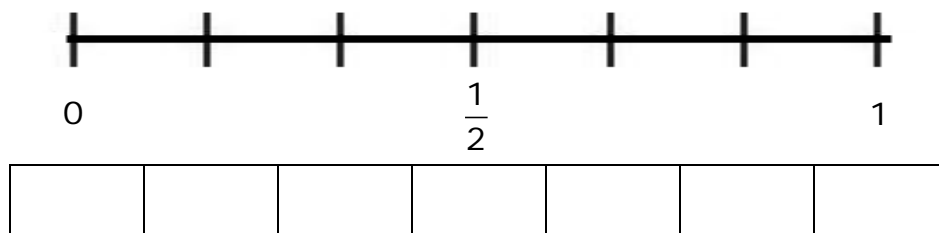
Pizza Fractions: Part 2

Another pizza party arrived at the pizzeria. Four friends made pizzas. Each of the children received the same amount of dough. Two children made round pizzas and two made rectangular pizzas. Each child chose how many slices he wanted his pizza cut into, and the chef cut the pizza into equal slices.

The amount of pizza that each child ate is written as a fraction below each pizza in the chart below. For each pizza, draw the correct number of slices and shade in the fraction that each child ate. Then answer the questions.

<p>A</p>  <p>$\frac{4}{6}$</p>	<p>B</p>  <p>$\frac{1}{6}$</p>
<p>C</p>  <p>$\frac{5}{6}$</p>	<p>D</p>  <p>$\frac{1}{2}$</p>

Show where these fractions are on the number line. Label the tick marks with the letter of the pizza.



Exploration

1. Which pizza had the least amount eaten? Which pizza had the most eaten? Explain your answers.

2. List the pizzas in order from the most eaten to the least amount eaten.

3. List the pizzas in order from the most left over to the least left over.

4. The pizzeria chefs want to box up the leftover pizza in as few boxes as possible. A box can hold a whole pizza, whether it is rectangular or round. How can the leftovers be boxed up as efficiently as possible? Explain your solution.