



5

# Common Core State Standards

Standard:  
**5.NF.2**

**Grade 5**

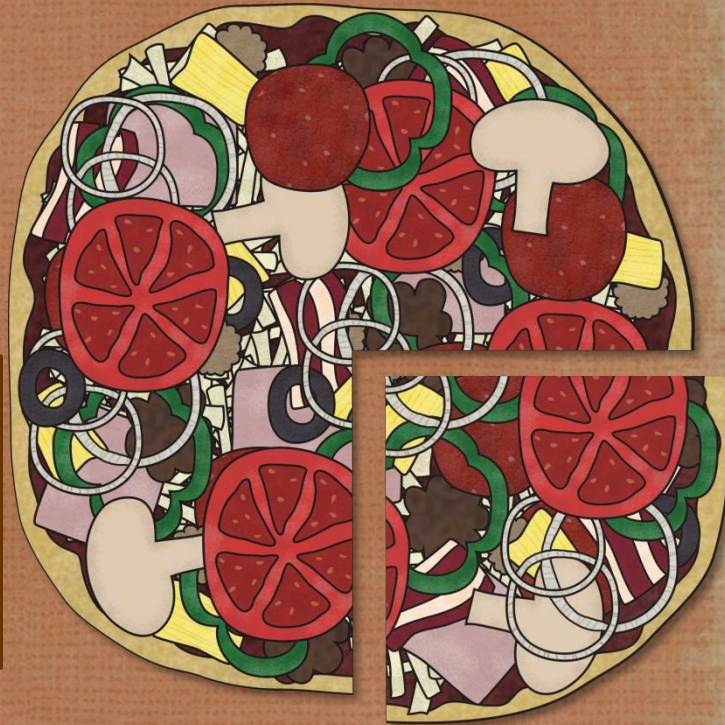
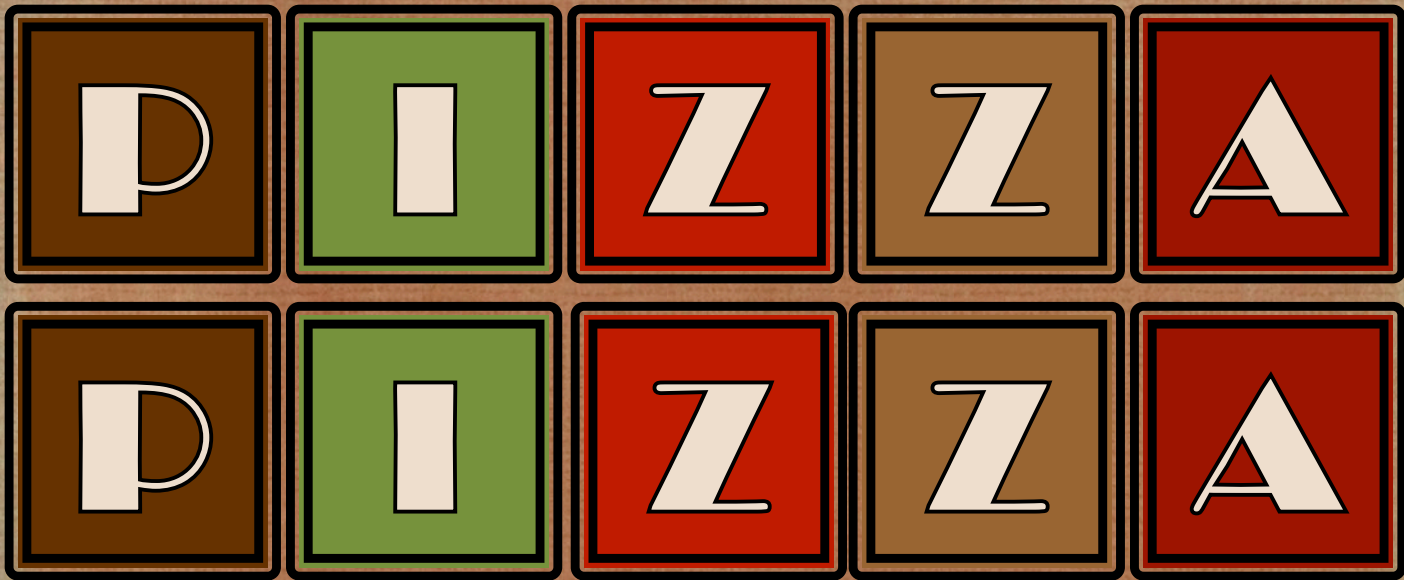
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# Common Core State Standards

Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. *For example, recognize an incorrect result  $2/5 + 1/2 = 3/7$ , by observing that  $3/7 < 1/2$ .*





**Standard:** Match each word problem with its answer card. Record your work and the solution on the worksheet.

**Standard:** Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result  $\frac{2}{5} + \frac{1}{2} = \frac{3}{7}$ , by observing that  $\frac{3}{7} < \frac{1}{2}$ .



1

Frank ate  $\frac{1}{3}$  of a pizza. His brother ate  $\frac{1}{4}$  of the pizza. How much pizza was left?

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2

Julian and his sister entered a pizza-eating contest. Julian ate  $1\frac{1}{4}$  pizzas. His sister ate  $1\frac{2}{3}$  pizzas. How much pizza did they eat altogether?

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3

The Marquez family made homemade pizza for dinner. The pizza was one-half pepperoni and one-fourth cheese. The rest was sausage. How much of the pizza was sausage?

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4

The Extreme Pizza Kitchen makes specialty pizzas for customers with special diets. If  $\frac{1}{10}$  of their crusts are gluten-free, and  $\frac{1}{5}$  of the crusts are whole wheat, what fraction of the crusts are just "regular"?

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5

Adilene ate  $\frac{5}{6}$  of a pizza.  
Her sister ate  $\frac{2}{3}$  of a pizza.  
How many pizzas did they  
eat altogether?

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6

Melanie's gluten-free pizza crust  
uses  $\frac{3}{4}$  cup of GF all-purpose flour  
mix,  $\frac{3}{4}$  cup of tapioca flour, and  
 $\frac{1}{8}$  cup of dry buttermilk powder.  
How much of the dry ingredient  
mix does the recipe use?

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7

Connor ate  $\frac{2}{3}$  of an order  
of breadsticks. His mother ate  
 $\frac{1}{6}$  of the order. How much  
of the order was left?

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8

The Extreme Pizza Kitchen makes  
several specialty sauces in addition to  
their standard marinara. If  $\frac{1}{4}$  of the  
pizza orders use spicy marinara and  
 $\frac{1}{12}$  of the orders use alfredo sauce,  
what fraction of the orders do not use  
specialty sauce?

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9

Xander ate  $\frac{3}{8}$  of a pizza for lunch and  $\frac{1}{4}$  of the pizza for dinner. How much did he have left over for breakfast the next day?

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10

Natalie made two pizzas to share with her family. One-half of a pizza was Hawaiian, one-third was pepperoni, and two-thirds was barbeque chicken. The rest was plain cheese. What fraction was plain cheese?

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11

Jacqui makes dessert pizzas.  $\frac{5}{12}$  of her pizzas are fruit,  $\frac{1}{4}$  are candy, and the rest are chocolate. What fraction of her dessert pizza repertoire is chocolate?

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12

The Extreme Pizza Kitchen has an appetizer menu. Four-ninths of the appetizers are bread products. One-third of the appetizers are different kinds of chicken wings. What fraction of the appetizer menu is bread and chicken?



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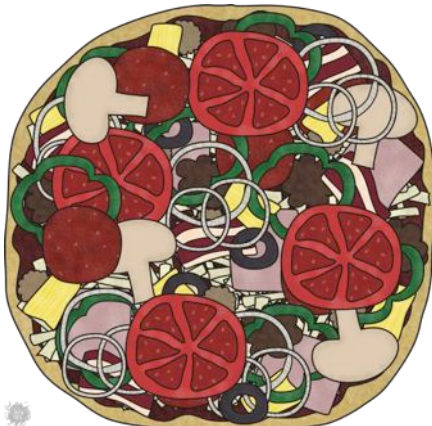
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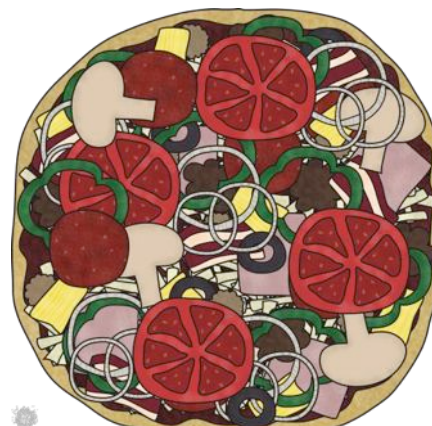
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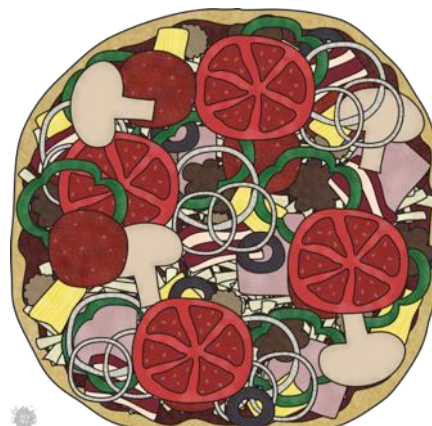
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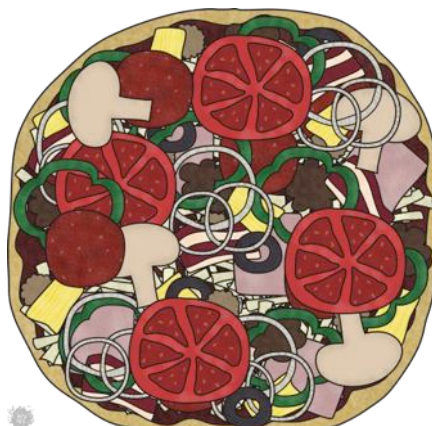
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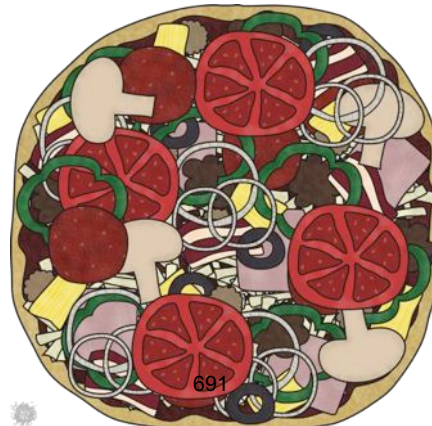
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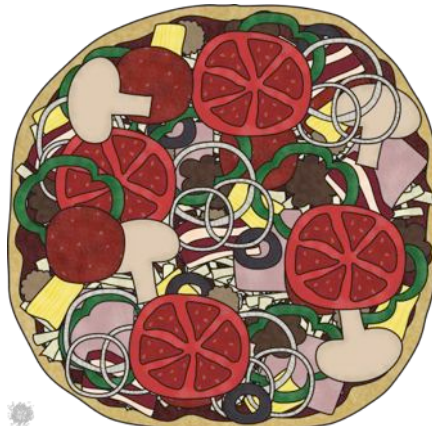
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Name \_\_\_\_\_



**Directions:** Show your work when solving each problem. Solutions are written in simplest terms.

#	Show your work	Solution
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		

Name \_\_\_\_\_ **answers** \_\_\_\_\_



**Directions:** Show your work when solving each problem. Solutions are written in simplest terms.

#	Show your work	Solution
1.		$\frac{5}{12}$
2.		$2\frac{11}{12}$
3.		$\frac{1}{4}$
4.		$\frac{7}{10}$
5.		$1\frac{1}{3}$
6.		$1\frac{5}{8}$
7.		$\frac{1}{6}$
8.		$\frac{2}{3}$
9.		$\frac{3}{8}$
10.		$\frac{1}{2}$
11.		$\frac{1}{3}$
12.		$\frac{7}{9}$



## Addition and Subtraction Fraction Stories

**Directions:** Solve the addition and subtraction fraction number stories mentally, then check your work. Use equations or models to explain your thinking. Show your answer in its lowest form.

In Patty's room,  $\frac{1}{2}$  of her award ribbons are for horse riding and  $\frac{1}{6}$  are for ballet. What fraction of the awards are for another activity?

\_\_\_\_\_ of the awards

When he made dip for the party, Linus used  $\frac{1}{2}$  of a cup of onion soup and  $\frac{3}{4}$  cup of vegetable soup mix. How much soup mix did Linus use altogether?

\_\_\_\_\_ cups of soup mix

Anthony and Christopher are making gimp bracelets. Anthony used  $\frac{5}{8}$  of a yard of gimp and Christopher used a  $\frac{1}{2}$  yard. How much more gimp did Anthony use than Christopher?

\_\_\_\_\_ yard (s)

Henry is making an ice cream sundae. He used  $\frac{1}{2}$  of a scoop of vanilla,  $\frac{2}{3}$  of a scoop of chocolate, and  $\frac{4}{6}$  of a scoop of strawberry. How many scoops of ice cream did Henry use?

\_\_\_\_\_ scoops

Mario had a 5 cups of smooth peanut butter in a jar the morning. At 10:00am he used  $\frac{1}{2}$  of a cup for a snack. At lunchtime, he used  $1\frac{1}{4}$  cups for a sandwich. At 4:00pm, he spread  $\frac{1}{3}$  of a cup onto some celery for his sister. How much peanut butter did Mario have at the end of the day?

\_\_\_\_\_ cups of peanut butter

## Addition and Subtraction Fraction Stories

**Directions:** Solve the addition and subtraction fraction number stories mentally, then check your work. Use equations or models to explain your thinking. Show your answer in its lowest form.

Brian's bus ride to school takes  $\frac{1}{2}$  of an hour. Delilah's ride takes  $\frac{1}{6}$  of an hour. How much longer is Brian's bus ride than Delilah's?

\_\_\_\_\_ hour

Donna watched a snail in her yard. It crawled  $\frac{1}{4}$  of an inch and then stopped. A few minutes later it crawled  $\frac{3}{8}$  of an inch. How far did the snail crawl in all?

\_\_\_\_\_ in

In Violet's neighborhood,  $\frac{1}{3}$  of the houses is brown and  $\frac{3}{6}$  are white. What fraction of the houses are not white or brown?

\_\_\_\_\_ houses

When I make pancakes, I use  $\frac{1}{3}$  of a bag of wheat flour and  $\frac{5}{6}$  of a bag of white flour. How many bags of flour do I use in all?

\_\_\_\_\_ bags of flour

At the wedding,  $1\frac{1}{3}$  pots of chicken soup was served and  $1\frac{1}{2}$  pots of vegetable soup were served. What was the total number of pots of soup served?

\_\_\_\_\_ pots of soup

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Directions: Solve the addition and subtraction fraction number stories below.

## Assessment

1. Kenny ate  $\frac{1}{5}$  of the birthday cake. His sister ate  $\frac{2}{6}$  of the cake. How much cake was left?
2. Sal and Linda tiled their kitchen floor in 3 colors.  $\frac{1}{6}$  of the tile was blue.  $\frac{1}{4}$  of the tile was yellow. How much of the tile was red?
3. Isabelle and Aiden made desserts for the party.  $\frac{2}{7}$  of the desserts were chocolate.  $\frac{1}{5}$  were fruity. The rest were cinnamon. What fraction were cinnamon?
4. Claudia scooped ice cream into bowls. She placed  $\frac{1}{2}$  cup of mint,  $\frac{2}{3}$  cup of strawberry, and  $\frac{5}{6}$  cup of coffee. How many cups of ice cream did Claudia scoop?
5. Jimmy was busy today. He served his customers  $2\frac{2}{3}$  tureens of tomato soup,  $3\frac{3}{4}$  tureens of tortilla soup, and  $4\frac{1}{2}$  tureens of chicken noodle soup. How much soup did Jimmy serve today?