Problem Solving • Use Multiplication
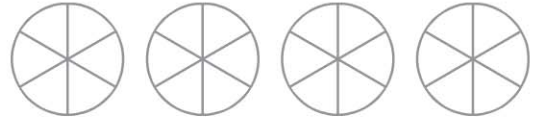
COMMON CORE STANDARD CC.5.NF.7b

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

1. Sebastian bakes 4 pies and cuts each pie into sixths. How many $\frac{1}{6}$-pie slices does he have?

To find the total number of sixths in the 4 pies, multiply 4 by the number of sixths in each pie.

$4 \div \frac{1}{6} = 4 \times 6 = 24$ one-sixth-pie slices

2. Ali has 2 vegetable pizzas that she cuts into eighths. How many $\frac{1}{8}$-size pieces does she have?

_____

3. A baker has 6 loaves of bread. Each loaf weighs 1 pound. He cuts each loaf into thirds. How many $\frac{1}{3}$-pound loaves of bread does the chef now have?

_____

4. Suppose the baker has 4 loaves of bread and cuts the loaves into halves. How many $\frac{1}{2}$-pound loaves of bread would the baker have?

_____

5. Madalyn has 3 watermelons that she cuts into halves to give to her neighbors. How many neighbors will get a $\frac{1}{2}$-size piece of watermelon?

_____

6. A landscaper had 5 tons of rock to build decorative walls. He used $\frac{1}{4}$ ton of rock for each wall. How many decorative walls did he build?

_____

Lesson Check (CC.5.NF.7b)

1. Julia has 12 pieces of fabric and cuts each piece into fourths. How many $\frac{1}{4}$ pieces of fabric does she have?

   Ⓐ 3
   Ⓑ 4
   Ⓒ 24
   Ⓓ 48

2. Josue has 3 cheesecakes that he cuts into thirds. How many $\frac{1}{3}$-size cheesecake pieces does he have?

   Ⓐ 9
   Ⓑ 6
   Ⓒ 3
   Ⓓ 1

Spiral Review (CC.5.NBT.2, CC.5.NF.4a, CC.5.NF.7a, CC.5.NF.7b)

3. Which of the following multiplication sentences can you use to help you find the quotient $6 \div \frac{1}{4}$? (Lesson 8.1)

   Ⓐ $6 \times \frac{1}{4} = \frac{6}{4}$

   Ⓑ $\frac{1}{6} \times 4 = \frac{4}{6}$

   Ⓒ $\frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$

   Ⓓ $24 \times \frac{1}{4} = 6$

4. Ellie uses 12.5 pounds of potatoes to make mashed potatoes. She uses one-tenth as many pounds of butter as potatoes. How many pounds of butter does Ellie use?
   (Lesson 5.1)

   Ⓐ 0.125 pound
   Ⓑ 1.25 pounds
   Ⓒ 125 pounds
   Ⓓ 1,250 pounds

5. Tiffany collects perfume bottles. She has 99 bottles in her collection. Two-thirds of her perfume bottles are made of crystal. How many of the perfume bottles in Tiffany's collection are made of crystal? (Lesson 7.1)

   Ⓐ 11
   Ⓑ 33
   Ⓒ 66
   Ⓓ 99

6. Stephen makes a blueberry pie and cuts it into 6 slices. He eats $\frac{1}{3}$ of the pie over the weekend. How many slices of pie does Stephen eat over the weekend? (Lesson 7.3)

   Ⓐ 6
   Ⓑ 3
   Ⓒ 2
   Ⓓ 1