

Homework & Practice 9-4

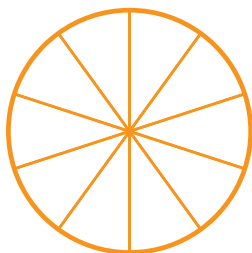
Model Subtraction of Fractions

Another Look!

Kimberly cut a pizza into 10 equal slices. She ate two of the slices. What fraction of the pizza is left?
Remember, $\frac{10}{10} = 1$ whole pizza.

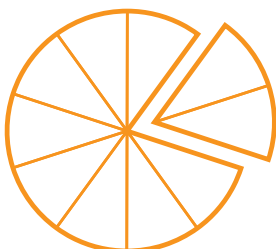
Step 1

Divide a circle into tenths to show the pizza cut into 10 slices.



Step 2

Take away the 2 slices or $\frac{2}{10}$ of the pizza that Kimberly ate.



Step 3

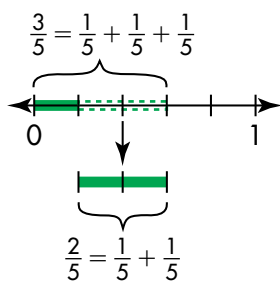
Count the remaining slices and write the subtraction.

$$\frac{10}{10} - \frac{2}{10} = \frac{8}{10}$$

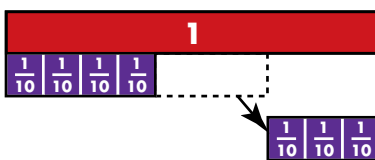
$\frac{8}{10}$ of the pizza is left.

For 1–12, find each difference. Use fraction strips or other tools as needed.

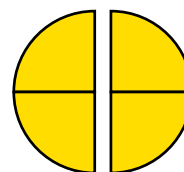
1. $\frac{3}{5} - \frac{2}{5}$



2. $\frac{7}{10} - \frac{3}{10}$



3. $\frac{4}{4} - \frac{2}{4}$



4. $\frac{8}{10} - \frac{5}{10}$

5. $\frac{6}{6} - \frac{3}{6}$

6. $\frac{11}{12} - \frac{7}{12}$

7. $\frac{5}{6} - \frac{2}{6}$

8. $\frac{4}{8} - \frac{2}{8}$

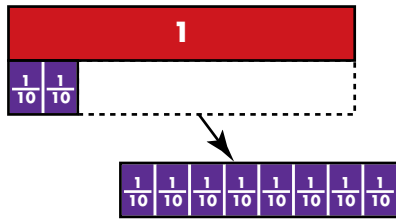
9. $\frac{11}{12} - \frac{8}{12}$

10. $\frac{9}{8} - \frac{2}{8}$

11. $\frac{24}{4} - \frac{18}{4}$

12. $\frac{30}{10} - \frac{20}{10}$

13. Eddie noticed that out of 10 students, one student was wearing brown shoes, and seven students were wearing black shoes. What fraction of students were **NOT** wearing brown or black shoes?



14. © **MP.1 Make Sense and Persevere**
A marathon is a race that covers about 26 miles. Cindy ran 5 miles before taking her first water break. Then she ran another 7 miles to get to her next water break. After 6 more miles, she took her last water break. About how much farther does Cindy have until she reaches the finish line?

15. **Algebra** Jeffrey has already run $\frac{3}{8}$ of the race. What fraction of the race does Jeffrey have left? Write and solve an equation.



16. **Higher Order Thinking** Rob's tablet is fully charged. He uses $\frac{1}{12}$ of the charge playing games, $\frac{5}{12}$ of the charge reading, and $\frac{3}{12}$ completing homework. What fraction of the charge remains on Rob's tablet?

You can use fraction strips to help solve the problem.



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17. Roger found he had $\frac{2}{5}$ of his quarters left to use at the arcade. Which of the following subtraction problems could **NOT** be used to find the fraction of quarters Roger had left?

- (A) $\frac{4}{5} - \frac{2}{5}$
- (B) $\frac{3}{6} - \frac{1}{2}$
- (C) $\frac{3}{5} - \frac{1}{5}$
- (D) $\frac{5}{5} - \frac{3}{5}$

18. Krys has $\frac{2}{3}$ of her homework finished. Which of the following does **NOT** have a difference of $\frac{2}{3}$?

- (A) $\frac{7}{3} - \frac{3}{3}$
- (B) $\frac{4}{3} - \frac{2}{3}$
- (C) $\frac{3}{3} - \frac{1}{3}$
- (D) $\frac{9}{3} - \frac{7}{3}$