

Chapter 7 423

Example Subtract mixed numbers.

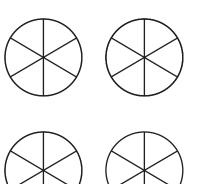
Alejandro had $3\frac{4}{6}$ quesadillas. His family ate $2\frac{3}{6}$ of the quesadillas. How many quesadillas are left?

Find $3\frac{4}{6} - 2\frac{3}{6}$.

MODEL

Shade the model to show $3\frac{4}{6}$.

Then cross out $2\frac{3}{6}$ to model the subtraction.

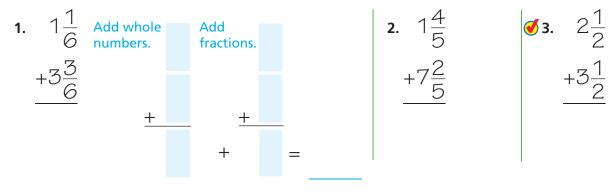


The difference is _____.

So, there are quesad



Write the sum as a mixed number with the fractional part less than 1.



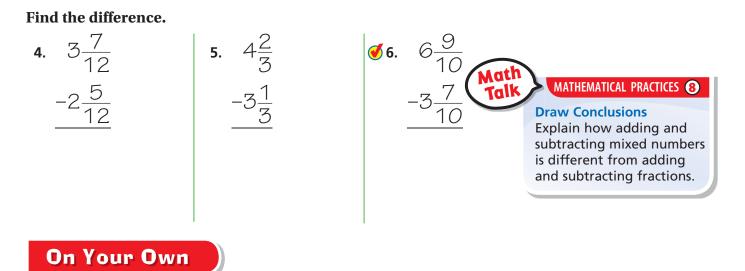


RECORD

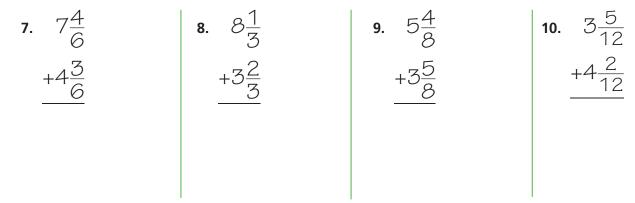
Subtract the fractional parts of the mixed numbers.

Then subtract the whole-number parts of the mixed numbers.

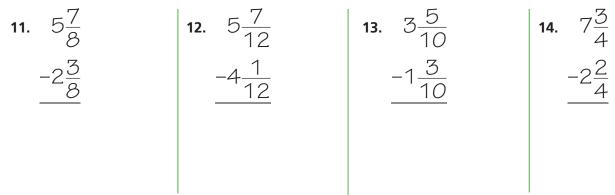




Write the sum as a mixed number with the fractional part less than 1.



Find the difference.



16. $6\frac{5}{8} - 4$

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15. $1\frac{3}{8} + 2\frac{7}{8}$

18. $6\frac{3}{5} + 4\frac{3}{5}$

Practice: Copy and Solve Find the sum or difference.

19. $8\frac{7}{10} - \frac{4}{10}$ **20.** $7\frac{3}{5} - 6\frac{3}{5}$

17. $9\frac{1}{2} + 8\frac{1}{2}$

Problem Solving • Applications

Solve. Write your answer as a mixed number.

- **21. Mathematical 1** Make Sense of Problems The driving distance from Alex's house to the museum is $6\frac{7}{10}$ miles. What is the round-trip distance?
- **22.** The driving distance from the sports arena to Kristina's house is $10\frac{9}{10}$ miles. The distance from the sports arena to Luke's house is $2\frac{7}{10}$ miles. How much greater is the driving distance between the sports arena and Kristina's house than between the sports arena and Luke's house?



- **23.** Pedro biked from his house to the nature preserve, a distance of $23\frac{4}{5}$ miles. Sandra biked from her house to the lake, a distance of $12\frac{2}{5}$ miles. How many miles less did Sandra bike than Pedro?
- **24. COPERPOR** During the Martinez family trip, they drove from home to a ski lodge, a distance of $55\frac{4}{5}$ miles, and then drove an additional $12\frac{4}{5}$ miles to visit friends. If the family drove the same route back home, what was the distance traveled during their trip?

○ False

True O False

O True

WRITE Math

Name _

Add and Subtract Mixed Numbers

Find the sum. Write the sum as a mixed number, so the fractional part is less than 1.





COMMON CORE STANDARD—4.NF.B.3c Build fractions from unit fractions by applying

and extending previous understandings of operations on whole numbers.

1. $6\frac{4}{5}$ + $3\frac{3}{5}$ $9\frac{7}{5} = 10\frac{2}{5}$	2. $4\frac{1}{2}$ + $2\frac{1}{2}$	3. $2\frac{2}{3}$ + $3\frac{2}{3}$	4. $6\frac{4}{5}$ + $7\frac{4}{5}$
5. $9\frac{3}{6}$	6. $8\frac{4}{12}$	7. $4\frac{3}{8}$	8. $9\frac{5}{10}$
+ $2\frac{2}{6}$	+ $3\frac{6}{12}$	+ $1\frac{5}{8}$	+ $6\frac{3}{10}$

Find the difference.

9. $6\frac{7}{8}$	10. $4\frac{2}{3}$	11. $6\frac{4}{5}$	12. $7\frac{3}{4}$
$-4\frac{3}{8}$	$-3\frac{1}{3}$	$-3\frac{3}{5}$	$-2\frac{1}{4}$

Problem Solving Real

- 13. James wants to send two gifts by mail. One package weighs $2\frac{3}{4}$ pounds. The other package weighs $1\frac{3}{4}$ pounds. What is the total weight of the packages?
- **14. WRITE** *Math* Describe how adding and subtracting mixed numbers can help you with recipes.

Lesson Check (4.NF.B.3c)

- 1. Brad has two lengths of copper pipe to fit together. One has a length of $2\frac{5}{12}$ feet and the other has a length of $3\frac{7}{12}$ feet. How many feet of pipe does he have?
- **2.** A pattern calls for $2\frac{1}{4}$ yards of material and $1\frac{1}{4}$ yards of lining. How much total fabric is needed?

Spiral Review (4.0A.A.3, 4.NBT.B.4, 4.NBT.B.5, 4.NBT.B.6)

- Shanice has 23 baseball trading cards of star players. She agrees to sell them for \$16 each. How much money will she make from selling the cards?
- **4.** Nanci is volunteering at the animal shelter. She wants to spend an equal amount of time playing with each dog. She has 145 minutes to play with all 7 dogs. About how much time can she spend with each dog?

- 5. Frieda has 12 red apples and 15 green apples. She is going to share the apples equally among 8 people and keep any extra apples for herself. How many apples will Frieda keep for herself?
- **6.** The Lynch family bought a house for \$75,300. A few years later, they sold the house for \$80,250. How much greater was the selling price than the purchase price?

