Name _____

Practice Video Tools Games

Additional Practice 7-4

Subtract Fractions with Unlike Denominators

Another Look!

Beth wants to exercise for $\frac{4}{5}$ hour. So far, she has exercised for $\frac{2}{3}$ hour. What fraction of an hour does she have left to exercise?

Step 1

Find a common multiple.

Multiples of 5:
5, 10, 15, 20

Multiples of 3:
3, 6, 9, 12, 15

Since 15 is a multiple of both 5 and 3, use 15 as a common denominator.

Step 2

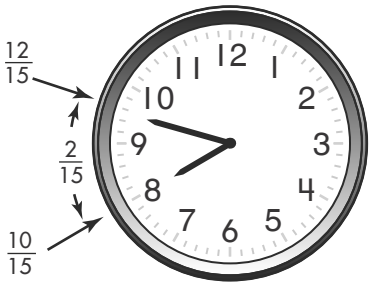
Write equivalent fractions.

$$\frac{4}{5} \times \frac{3}{3} = \frac{12}{15}$$
$$\frac{4}{5} = \frac{12}{15}$$

$$\frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$$
$$\frac{2}{3} = \frac{10}{15}$$

Step 3

Subtract the numerators.



$$\frac{12}{15} - \frac{10}{15} = \frac{2}{15}$$

Beth has $\frac{2}{15}$ hour left.

In **1–8**, find each difference.

1. $\frac{1}{3} = \frac{\square}{6}$
$-\frac{1}{6} = \frac{\square}{6}$
$\frac{\square}{\square}$

2. $\frac{2}{3} = \frac{\square}{12}$
$-\frac{5}{12} = \frac{\square}{12}$

3. $\frac{3}{5} = \frac{\square}{15}$
$-\frac{1}{3} = \frac{\square}{15}$

4. $\frac{2}{9} = \frac{\square}{72}$
$-\frac{1}{8} = \frac{\square}{72}$

5. $\frac{3}{4}$
$-\frac{2}{5}$

6. $\frac{4}{3}$
$-\frac{2}{5}$

7. $\frac{8}{8}$
$-\frac{4}{9}$

8. $\frac{17}{18}$
$-\frac{2}{3}$

Use the table for **9** and **10**. The trail around Mirror Lake in Yosemite National Park is 5 miles long.

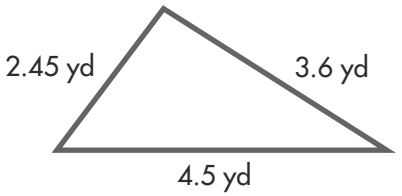
DATA

Hiker	Fraction of Trail Hiked
Andrea	$\frac{2}{5}$
Jon	$\frac{1}{2}$
Callie	$\frac{4}{5}$

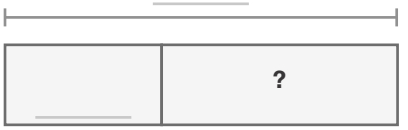
9. What fraction describes how much more of the trail Jon hiked than Andrea hiked?

10. What fraction describes how much more of the trail Callie hiked than Jon hiked?

11. Critique Reasoning Amy said that the perimeter of the triangle below is less than 10 yards. Do you agree with her? Why or why not?



12. Eva had $\frac{7}{8}$ gallon of paint. Her brother Ivan used $\frac{1}{4}$ gallon to paint his model boat. Eva needs at least $\frac{1}{2}$ gallon to paint her bookshelf. Did Ivan leave her enough paint? Write an equation and fill in the bar diagram to solve.



13. Paul's dad made a turkey pot pie for dinner on Wednesday. The family ate $\frac{4}{8}$ of the pie. On Thursday after school, Paul ate $\frac{2}{16}$ of the pie for a snack. What fraction of the pie remained?

14. Higher Order Thinking Write a real-world problem in which you would subtract fractions with unlike denominators. Then, solve your problem.

Assessment Practice

15. Choose the correct numbers from the box below to complete the subtraction sentence that follows.

$\frac{1}{2}$	$\frac{5}{14}$	$\frac{3}{7}$	$\frac{1}{7}$	$\frac{1}{14}$

$\square - \frac{3}{7} = \square$

16. Choose the correct numbers from the box below to complete the subtraction sentence that follows.

$\frac{3}{20}$	$\frac{3}{5}$	$\frac{1}{20}$	$\frac{4}{5}$	$\frac{7}{9}$

$\square - \frac{3}{4} = \square$