## Another Look!

Rename $\frac{4}{10}$ and $\frac{3}{8}$ using a common denominator.


## Additional

Practice 7-2
Find Common Denominators

## Step 1

Find a common denominator for $\frac{4}{10}$ and $\frac{3}{8}$.
List multiples of the denominators 10 and 8.
Then look for a common multiple.
10: 10, 20, 30,40
8: 8, 16, 24, 32, 40
The number 40 can be used as the common denominator.

## Step 2

Rename $\frac{4}{10}$ and $\frac{3}{8}$ using 40 as the common denominator.

Multiply the numerator and denominator by the same nonzero number.
$\frac{4}{10} \quad \frac{4 \times 4}{10 \times 4}=\frac{16}{40} \quad \frac{3}{8} \quad \frac{3 \times 5}{8 \times 5}=\frac{15}{40}$
So, $\frac{16}{40}$ and $\frac{15}{40}$ is one way to rename $\frac{4}{10}$ and $\frac{3}{8}$ using a common denominator.

In 1-9, find a common denominator for each pair of fractions. Then write equivalent fractions with the common denominator.

1. $\frac{1}{3}$ and $\frac{4}{9}$
$\frac{1}{3}$ Multiples of the denominator: Rename $\frac{1}{3}$ :
$\frac{4}{9}$ Multiples of the denominator:
Rename $\frac{4}{9}$ :
Common Denominator:

$$
\text { Rename. } \frac{1 \times \square}{3 \times \square}=\frac{\square}{\square} \quad \frac{4 \times \square}{9 \times \square}=\frac{\square}{\square}
$$

2. $\frac{3}{4}$ and $\frac{2}{5}$
3. $\frac{4}{7}$ and $\frac{2}{3}$
4. $\frac{1}{2}$ and $\frac{7}{11}$
5. $\frac{5}{12}$ and $\frac{3}{5}$
6. $\frac{5}{4}$ and $\frac{11}{16}$
7. $\frac{6}{7}$ and $\frac{1}{5}$
8. $\frac{9}{15}$ and $\frac{4}{9}$
9. $\frac{5}{6}$ and $\frac{8}{21}$
10. On the Dell River, a boat will pass the Colby drawbridge and then the Wave drawbridge. Rename each of the two drawbridge opening times. There are 60 minutes in an hour, so use 60 as a common denominator. Then, rename each opening time using another common denominator. Explain how you found your answers.

Dell River Drawbridge Openings
Bridge Name : Time of Opening

| Asher Cross | $\vdots$ | On the hour |
| :--- | :--- | :--- |
| Colby | $\vdots$ | On the $\frac{3}{4}$ hour |
| Rainbow | $\vdots$ | On the $\frac{2}{3}$ hour |
| Red Bank | $\vdots$ | On the $\frac{1}{4}$ hour |
| Wave | On the $\frac{1}{6}$ hour |  |

11. Higher Order Thinking Phil baked two kinds of pies. Each pie pan was the same size. He served $\frac{1}{2}$ of the blueberry pie. He served $\frac{1}{4}$ of the apple pie. If each pie had 8 pieces to start, what fraction in eighths of the apple pie did he serve? How many more pieces of the blueberry pie than the apple pie did he serve?
12. Look for Relationships Shelly is trying to improve her running time for a track race. She ran the first race in 43.13 seconds. Her time was 43.1 seconds in the second race and 43.07 seconds in the third race. If this pattern continues, what will Shelly's time be in the fourth race?
13. Alicia measured $\frac{1}{4}$ yard of the Blue Diamonds fabric and $\frac{5}{6}$ yard of the Yellow Bonnets fabric to make a quilt. Rename each length of fabric. Use the number of inches in a yard as a common denominator.
HINT: 1 yard $=3$ feet; 1 foot $=12$ inches
14. Choose all the numbers that could be common denominators for $\frac{2}{3}$ and $\frac{7}{9}$.


6

15. Choose all the numbers that could be common denominators for $\frac{1}{9}$ and $\frac{1}{2}$.
16

$\square 36$
$\square 45$

