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## Another Look!

Find $\frac{3}{4} \times \frac{2}{3}$.


Additional
Practice 8-5
Multiply Two
Fractions

## Step 1

Multiply the numerators, and then multiply the denominators.
$\frac{3 \times 2}{4 \times 3}=\frac{6}{12}=\frac{1}{2}$

## Step 2

Check that the answer is reasonable. Since $\frac{1}{2}$ is less than 1 , the answer is reasonable.

Leveled Practice In 1-24, find each product.

1. $\frac{7}{8} \times \frac{2}{3}=\frac{7 \times 2}{8 \times 3}=\frac{14}{24}=\frac{7}{12}$
2. $\frac{3}{4} \times \frac{5}{9}=\frac{3 \times 5}{4 \times 9}=\frac{15}{36}=\frac{5}{12}$
3. $\frac{4}{5} \times \frac{1}{8}=\frac{4 \times 1}{5 \times 8}=\frac{4}{40}=\frac{1}{10}$
4. $\frac{4}{7} \times \frac{1}{2}=\frac{4 \times 1}{7 \times 2}=\frac{4}{14}=\frac{2}{7}$
5. $\frac{3}{5} \times \frac{3}{7}=\frac{3 \times 3}{5 \times 7}=\frac{9}{35}$
6. $\frac{4}{9} \times \frac{2}{3}=\frac{4 \times 2}{9 \times 3}=\frac{8}{27}$
7. $\frac{11}{12} \times \frac{2}{5} \frac{11}{30}$
8. $\frac{2}{3} \times \frac{4}{5}-\frac{8}{15}$
9. $\frac{1}{6} \times \frac{2}{3} \frac{1}{9}$
10. $\frac{3}{4}$ of $\frac{1}{2} \frac{3}{8}$
11. $\frac{6}{7} \times \frac{1}{5} \frac{6}{35}$
12. $\frac{2}{3} \times \frac{5}{9} \frac{10}{27}$
13. $\frac{1}{3}$ of $\frac{3}{10} \frac{1}{10}$
14. $\frac{4}{5}$ of $\frac{5}{6} \frac{2}{3}$
15. $\frac{3}{7} \times \frac{2}{7} \frac{6}{49}$
16. $\frac{1}{2}$ of $\frac{2}{3} \frac{1}{3}$
17. $\frac{4}{5} \times \frac{2}{3} \frac{8}{15}$
18. $\frac{3}{10} \times \frac{3}{10} \frac{9}{100}$
19. $\left(\frac{1}{2}+\frac{1}{3}\right) \times \frac{8}{9} \frac{20}{27}$
20. $\left(\frac{2}{3}-\frac{1}{6}\right) \times \frac{11}{12} \frac{11}{24}$
21. $\left(\frac{3}{5}+\frac{1}{4}\right) \times \frac{2}{3} \frac{17}{30}$
22. $\frac{7}{8} \times\left(\frac{1}{3}+\frac{1}{3}\right) \frac{7}{12}$
23. $\left(\frac{11}{12}-\frac{5}{6}\right) \times \frac{3}{4} \frac{1}{16}$
24. $\frac{1}{3} \times\left(\frac{9}{10}-\frac{3}{5}\right) \frac{1}{10}$
25. A full bottle holds $\frac{1}{4}$ gallon of juice. If $\frac{3}{5}$ of the juice has been poured out, how much juice is left in the bottle? $\frac{1}{10} \mathrm{gal}$
26. Natasha has 3 pounds of apples and $2 \frac{1}{2}$ pounds of grapes. If she gives $\frac{1}{3}$ of her apples to Silvie, how many pounds of apples does she have left? 2 pounds
27. Keyshia is riding her bike on Bay View bike path. Keyshia's bike got a flat tire $\frac{2}{3}$ of the way down the path and she had to stop. How far did Keyshia ride?
$\frac{7}{12} \mathrm{mi}$

28. Of the apps on Juan's tablet, $\frac{3}{4}$ are gaming apps, and $\frac{5}{7}$ of the gaming apps are action games. What fraction of the apps on Juan's tablet are action games?
$\frac{15}{28}$
29. Higher Order Thinking In Mrs. Hu's classroom, $\frac{4}{5}$ of the students have a dog as a pet. Of the students who have a dog as a pet, $\frac{2}{3}$ also have a cat as a pet. If there are 45 students in her class, how many have both a dog and a cat as pets?

## 24 students

31. Construct Arguments Which is greater, $\frac{4}{7} \times \frac{1}{4}$ or $\frac{4}{7} \times \frac{1}{6}$ ? Explain. $\frac{4}{7} \times \frac{1}{4}$; Sample explanation: $\frac{1}{4}>\frac{1}{6}$, so $\frac{1}{4}$ of any number is greater than $\frac{1}{6}$ of the same number.

## Assessment Practice

32. Choose all the multiplication sentences that have $\frac{5}{6}$ as the missing part.

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\begin{aligned}
& \square \times \frac{2}{3}=\frac{5}{9} \\
& \frac{2}{3} \times \square=\frac{7}{9} \\
& \frac{11}{12} \times \frac{10}{11}=\square \\
& \square \times \frac{1}{5}=\frac{1}{6} \\
& \frac{3}{4} \times \square=\frac{5}{8}
\end{aligned}
$$

33. Choose all the expressions that have $\frac{8}{15}$ as a product.

