## **REVIEW:** Multiplying Whole Numbers and Fractions

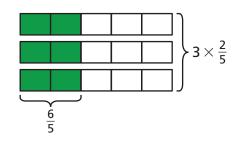
Key Concept and VocabularyMultiply whole number<br/>and numerator. $3 \times \frac{2}{5} = \frac{3 \times 2}{5} = \frac{6}{5}$ 

#### **Skill Examples**

- **1.**  $4 \times \frac{2}{3} = \frac{4 \times 2}{3} = \frac{8}{3}$ **2.**  $5 \times \frac{1}{6} = \frac{5 \times 1}{6} = \frac{5}{6}$
- **3.**  $2 \times \frac{3}{4} = \frac{2 \times 3}{4} = \frac{6}{4} = \frac{3}{2}$
- $4. \quad 8 \times \frac{5}{10} = \frac{8 \times 5}{10} = \frac{40}{10} = 4$

#### **Visual Model**

Name



### **Application Example**

**5.** One lap around a track is equal to  $\frac{4}{5}$  mile. You walk 3 laps around the track. How many miles do you walk?

heck your answers at BigIdeasMath.com. 🗖

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

• You walk 
$$\frac{12}{5}$$
 miles.

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Find the product.

6.  $3 \times \frac{1}{4} = \frac{\frac{3}{4}}{\frac{28}{10}}$  7.  $1 \times \frac{5}{8} = \frac{\frac{5}{8}}{\frac{24}{5}}$  8.  $5 \times \frac{2}{3} = \frac{\frac{10}{3}}{\frac{3}{2}}$  9.  $2 \times \frac{2}{5} = \frac{\frac{4}{5}}{\frac{5}{2}}$ 10.  $4 \times \frac{7}{10} = \frac{\frac{28}{10}, \text{ or } \frac{14}{5}}{\frac{15}{2}}$  11.  $8 \times \frac{3}{4} = \frac{\frac{24}{6}, \text{ or } 6}{\frac{81}{10}}$  12.  $3 \times \frac{4}{3} = \frac{\frac{12}{3}, \text{ or } 4}{\frac{24}{5}}$  13.  $6 \times \frac{7}{12} = \frac{\frac{42}{12}, \text{ or } \frac{7}{2}}{\frac{120}{12}, \text{ or } 10}$ 14.  $\frac{3}{2} \times 5 = \frac{2}{2}$  15.  $\frac{9}{10} \times 9 = \frac{10}{10}$  16.  $3 \times 2 \times \frac{4}{5} = \frac{5}{5}$  17.  $4 \times \frac{5}{12} \times 6 = \frac{120}{12}, \text{ or } 10$ 

#### Compare.

- **18.**  $4 \times \frac{7}{8} > 6 \times \frac{3}{8}$  **19.**  $\frac{4}{5} \times 3 < \frac{3}{10} \times 9$  **20.**  $\frac{4}{3} \times 9 = 8 \times \frac{3}{2}$
- **21.** CINNAMON A recipe calls for  $\frac{3}{4}$  teaspoon of cinnamon. You make 3 batches of the recipe. How may teaspoons of cinnamon do you use?  $\frac{9}{4}$  teaspoons
- **22. PIANO PRACTICE** You spend  $\frac{5}{2}$  hours practicing the piano each day for 3 days. Your friend spends  $\frac{4}{3}$  hours practicing the piano each day for 4 days. Who spends more time practicing the piano? <u>you</u>