

Name _____

Compare Fraction Factors and Products**COMMON CORE STANDARDS** CC.5.NF.5a, CC.5.NF.5b

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

Complete the statement with *equal to*, *greater than*, or *less than*.

1. $\frac{3}{5} \times \frac{4}{7}$ will be **less than** $\frac{4}{7}$. 2. $5 \times \frac{7}{8}$ will be _____ $\frac{7}{8}$.

Think: $\frac{4}{7}$ is multiplied by a number less than 1;
so, $\frac{3}{5} \times \frac{4}{7}$ will be less than $\frac{4}{7}$.

3. $6 \times \frac{2}{5}$ will be _____ $\frac{2}{5}$. 4. $\frac{1}{9} \times 1$ will be _____ $\frac{1}{9}$.

5. $\frac{7}{8} \times \frac{3}{5}$ will be _____ $\frac{3}{5}$. 6. $\frac{4}{5} \times \frac{7}{7}$ will be _____ $\frac{4}{5}$.

Problem Solving 

7. Starla is making hot cocoa. She plans to multiply the recipe by 4 to make enough hot cocoa for the whole class. If the recipe calls for $\frac{1}{2}$ teaspoon vanilla extract, will she need more than $\frac{1}{2}$ teaspoon or less than $\frac{1}{2}$ teaspoon of vanilla extract to make all the hot cocoa?
8. Miles is planning to spend $\frac{2}{3}$ as many hours bicycling this week as he did last week. Is Miles going to spend more hours or fewer hours bicycling this week than last week?

Lesson Check (CC.5.NF.5a, CC.5.NF.5b)

- Trevor saves $\frac{2}{3}$ of the money he earns at his after-school job. Suppose Trevor starts saving $\frac{1}{4}$ as much as he is saving now. Which statement below will be true?
 - He will be saving four times as much.
 - He will be saving less.
 - He will be saving more.
 - He will be saving the same amount.
- Suppose you multiply a whole number greater than 1 by the fraction $\frac{3}{5}$. Which statement below will be true?
 - The product will be equal to $\frac{3}{5}$.
 - The product will be greater than $\frac{3}{5}$.
 - The product will be less than $\frac{3}{5}$.
 - You cannot make any conclusions about the product.

Spiral Review (CC.5.NBT.6, CC.5.NBT.7, CC.5.NF.1)

- In the next 10 months, Colin wants to save \$900 for his vacation. He plans to save \$75 each of the first 8 months. How much must he save each of the last 2 months in order to meet his goal if he saves the same amount each month? (Lesson 2.2)
 - \$150
 - \$300
 - \$450
 - \$600
- Megan hiked 15.12 miles in 6.3 hours. If Megan hiked the same number of miles each hour, how many miles did she hike each hour? (Lesson 5.6)
 - 0.24 miles
 - 0.252 miles
 - 2.4 miles
 - 2.52 miles
- What is the total cost of 0.5 pound of peaches selling for \$0.80 per pound and 0.7 pound of oranges selling for \$0.90 per pound? (Lesson 4.7)
 - \$0.51
 - \$1.02
 - \$1.03
 - \$10.30
- It is $42\frac{1}{2}$ miles from Eaton to Baxter, and $37\frac{4}{5}$ miles from Baxter to Wellington. How far is it from Eaton to Wellington, if you go by way of Baxter? (Lesson 6.6)
 - $4\frac{7}{10}$ miles
 - $79\frac{1}{2}$ miles
 - $80\frac{3}{10}$ miles
 - $80\frac{2}{5}$ miles