

Name _____

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

Think: $1 \times 1\frac{5}{8}$ is $1\frac{5}{8}$.Since $\frac{2}{3}$ is less than 1, $\frac{2}{3} \times 1\frac{5}{8}$ will be less than $1\frac{5}{8}$.

3. $3 \times 3\frac{2}{7}$ will be _____ $3\frac{2}{7}$. 4. $9 \times 1\frac{4}{5}$ will be _____ $1\frac{4}{5}$.

5. $1\frac{7}{8} \times 2\frac{3}{8}$ will be _____ $2\frac{3}{8}$. 6. $3\frac{4}{9} \times \frac{5}{9}$ will be _____ $3\frac{4}{9}$.

Problem Solving 

7. Fraser is making a scale drawing of a dog house. The dimensions of the drawing will be $\frac{1}{8}$ of the dimensions of the actual doghouse. The height of the actual doghouse is $36\frac{3}{4}$ inches. Will the dimensions of Fraser's drawing be equal to, greater than, or less than the dimensions of the actual dog house?
- _____

8. Jorge has a recipe that calls for $2\frac{1}{3}$ cups of flour. He plans to make $1\frac{1}{2}$ times the recipe. Will the amount of flour Jorge needs be equal to, greater than, or less than the amount of flour his recipe calls for?
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Lesson Check (CC.5.NF.5a, CC.5.NF.5b)

- Jenna skis $2\frac{1}{4}$ miles in one hour. Her instructor skis $1\frac{1}{3}$ times as far in one hour. Which statement below is true?
 - Jenna skis a greater distance than her instructor skis.
 - Jenna skis a shorter distance than her instructor skis.
 - Jenna skis the same distance as her instructor skis.
 - Jenna skis twice the distance her instructor skis.
- Suppose you multiply a fraction less than 1 by the mixed number $2\frac{3}{4}$. Which statement below will be true?
 - The product will be equal to $2\frac{3}{4}$.
 - The product will be greater than $2\frac{3}{4}$.
 - The product will be less than $2\frac{3}{4}$.
 - You cannot make any conclusions about the product.

Spiral Review (CC.NBT.2, CC.5.NBT.7, CC.5.NF.1)

- Rectangular Washington County measures 15.9 miles by 9.1 miles. What is the county's area? (Lesson 4.7)
 - 1.8 square miles
 - 6.8 square miles
 - 25 square miles
 - 144.69 square miles
- Marsha jogged 7.8 miles. Erica jogged 0.5 times as far. How far did Erica jog? (Lesson 4.7)
 - 0.39 mile
 - 3.9 miles
 - 39 miles
 - 390 miles
- One cookie recipe calls for $2\frac{1}{3}$ cups of sugar. Another cookie recipe calls for $2\frac{1}{2}$ cups of sugar. Tim has 5 cups of sugar. If he bakes both recipes, how much sugar will he have left over? (Lesson 6.7)
 - 0 cups
 - $\frac{1}{6}$ cup
 - $1\frac{1}{6}$ cups
 - $4\frac{5}{6}$ cups
- On Monday, it rained $1\frac{1}{4}$ inches. On Tuesday, it rained $\frac{3}{5}$ inch. How much more did it rain on Monday than on Tuesday? (Lesson 6.7)
 - $\frac{2}{20}$ inch
 - $\frac{3}{5}$ inch
 - $\frac{13}{20}$ inch
 - $1\frac{17}{20}$ inches