Compare Mixed Number Factors and Products

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

1. $\frac{2}{3} \times 1\frac{5}{8}$ will be ___less than___ $1\frac{5}{8}$.

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 $1\frac{5}{8}$.

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

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 · Real World

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?

_____

_____

9. **WRITE** *Math* Explain how scaling a mixed number by $\frac{1}{2}$ will affect the size of the number.

_____

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Lesson Check

1. Jenna skis $2\frac{1}{3}$ miles down the mountain. Her instructor skis $1\frac{1}{2}$ times as far. Does Jenna ski a shorter, greater, or the same distance as her instructor?

_____

_____

_____

2. Suppose you multiply a fraction less than 1 by the mixed number $2\frac{3}{4}$. Will the product be less than, greater than, or equal to $2\frac{3}{4}$?

_____

_____

_____

Spiral Review

3. Rectangular Washington County measures 15.9 miles by 9.1 miles. What is the county's area?

_____

4. Marsha jogged 7.8 miles. Erica jogged 0.5 times as far. How far did Erica jog?

_____

5. One bread recipe calls for $2\frac{1}{3}$ cups of flour. Another bread recipe calls for $2\frac{1}{2}$ cups of flour. Tim has 5 cups of flour. If he makes both recipes, how much flour will he have left over?

_____

6. 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?

_____

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