Name ___________________________________________  Date ____________________

1. Solve for the unknown. Rewrite each phrase as a multiplication sentence. Circle the scaling factor and put a box around the number of meters.
   a. \( \frac{1}{2} \) as long as 8 meters = ______ meter(s)  
   b. 8 times as long as \( \frac{1}{2} \) meter = ______ meter(s)

2. Draw a tape diagram to model each situation in Problem 1, and describe what happened to the number of meters when it was multiplied by the scaling factor.
   a.  
   b.  

3. Fill in the blank with a numerator or denominator to make the number sentence true.
   a. \( 7 \times \frac{5}{4} < 7 \)  
   b. \( \frac{7}{5} \times 15 > 15 \)  
   c. \( 3 \times \frac{1}{5} = 3 \)

4. Look at the inequalities in each box. Choose a single fraction to write in all three blanks that would make all three number sentences true. Explain how you know.
   a. \[
   \begin{align*}
   \frac{3}{4} \times \_\_\_ > \frac{3}{4} \\
   2 \times \_\_\_ > 2 \\
   \frac{7}{5} \times \_\_\_ > \frac{7}{5}
   \end{align*}
   
   b. \[
   \begin{align*}
   \frac{3}{4} \times \_\_\_ < \frac{3}{4} \\
   2 \times \_\_\_ < 2 \\
   \frac{7}{5} \times \_\_\_ < \frac{7}{5}
   \end{align*}
   
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5. Johnny says multiplication always makes numbers bigger. Explain to Johnny why this isn’t true. Give more than one example to help him understand.

6. A company uses a sketch to plan an advertisement on the side of a building. The lettering on the sketch is \( \frac{3}{4} \) inch tall. In the actual advertisement, the letters must be 34 times as tall. How tall will the letters be on the building?

7. Jason is drawing the floor plan of his bedroom. He is drawing everything with dimensions that are \( \frac{1}{12} \) of the actual size. His bed measures 6 ft by 3 ft, and the room measures 14 ft by 16 ft. What are the dimensions of his bed and room in his drawing?