

NF.6 Lesson 7 - Problem Set

Name _____

Date _____

Steps:

1. Decompose the mixed numbers.
 2. Find the partial products using the window method.
 3. Combine the pieces, making like units when necessary.
 4. Simplify if possible by thinking about multiples
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1. $\frac{1}{2} \times 7\frac{2}{3} =$ _____

2. $\frac{2}{3} \times 10\frac{3}{4} =$ _____

3. $5\frac{1}{4} \times \frac{3}{4} =$ _____

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4. $6\frac{3}{5} \times 5\frac{1}{4} =$ _____

5. $12\frac{1}{2} \times 5\frac{1}{5} =$ _____

6. $10\frac{3}{4} \times 7\frac{1}{3} =$ _____

7. Each water bottle that Natalie brought on the hiking trip $3\frac{1}{4}$ pints of water. She has $3\frac{1}{2}$ bottles left. How much total water does Natalie have?

8. The measurements of a bedroom are $12\frac{3}{8}$ feet by $10\frac{5}{8}$ feet. How many square feet of carpet are needed for the room?

9. If the area of a dining is $42\frac{1}{4}$ square feet, which of the following could be the measurements of the room?

- a. $10\frac{1}{4}$ feet wide and $3\frac{1}{4}$ of a foot long
- b. $8\frac{1}{2}$ feet wide and $5\frac{1}{2}$ feet long
- c. $6\frac{1}{2}$ feet wide and $6\frac{1}{2}$ feet long
- d. $6\frac{1}{2}$ feet wide and $5\frac{1}{2}$ feet long

10. What could be the measurements of a room that has an area of $89\frac{1}{4}$ square feet?