Name: _____

Unit 5 Review Sheet; Due Tuesday

Test on Wednesday, 12/19

Topics will include:

- Adding fractions with like and unlike denominators
- Subtracting fractions with like and unlike denominators
- Subtracting fractions when regrouping is required
- Multiplying a whole number by a fraction
- Applying fractions to real-world situations (word problems)

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1) When subtracting or adding fractions together you need to find the _____ to get the denominators to be the same.

2) The _____ states that when multiplying a whole number by its reciprocal (opposite) you will always get an answer of 1 whole.

- Example:

3) If regrouping is required when subtracting two fractions explain in your own words where you borrow from and what the next step is: _____

_____

4) What are three ways to prove your work when multiplying a whole number by a fraction?

1) **2)** **3)**

Directions: Solve the equations. Make sure to simplify when possible.

5) $\frac{3}{5} + \frac{4}{5} =$ _____

6) $\frac{1}{2} + \frac{1}{3} =$ _____

7) $6\frac{3}{8} + 1\frac{4}{9} =$ _____

8) $\frac{4}{6} - \frac{2}{6} =$ _____

9) $9\frac{8}{12} - 7\frac{1}{3} =$ _____

10) $3\frac{2}{7} - \frac{5}{7} =$ _____

11) $5\frac{1}{5} - 3\frac{2}{3} =$ _____

Directions: Solve the multiplication problems. You must prove your work with either an array, picture, number line, or repeated addition. *If needed, do your work on a separate sheet of paper.* Simplify your answer when possible.

12) $7 \times \frac{3}{5} =$ _____

13) $5 \times \frac{2}{12} =$ _____

14) $8 \times \frac{1}{8} =$ _____

15) $4 \times \frac{2}{12} =$ _____

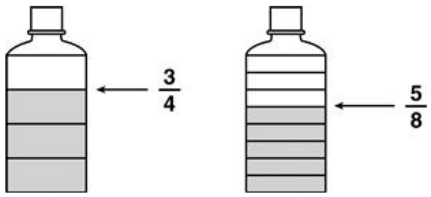
Directions: Solve the word problems. Make sure to look out for key words. Simplify your answer whenever possible.

16) The Smith family is driving to the Outer Banks for a beach trip. The total drive takes 8 ¾ hours. They plan to stop in Richmond, Virginia for lunch which only takes 2 ½ hours to get to. After their stop, how much more driving do they have to do? _____

17) Shonda's cookies require 1 ¾ cup of brown sugar and 2 $\frac{1}{3}$ cup of granulated sugar. How much sugar does the recipe call for? _____

18) A pint of ice cream was $\frac{9}{10}$ full when Rachel opened it. When she finished, it was ½ way empty. How much ice cream did Rachel eat? _____

Each 1-liter bottle below is shaded to represent the amount of water in the bottle.



19) **How many total liters are in these 2 bottles, expressed in lowest terms?** _____

20) Omar measured $\frac{5}{8}$ pounds of flour on a scale. He removed some flour from the scale so that only $\frac{3}{16}$ pound was left. How much flour did he remove? _____