Name: _____ /10 **Instructor:** _____

Date: _____ **Class Time:** _____

Unit 1 Module B Notes Sections 2.7, 3.1 – 3.3

View the PowerPoint, Videos, or Textbook for Module 1B.

Vocabulary ***Fill in the blanks.***

1. (Section 2.7) If the product of two numbers is 1, we say that they are _____ of each other.

2. (Section 2.7) The number $0 \text{ or } \frac{0}{n}$ has no _____.

3. (Section 3.1 and 3.2) The _____ _____ _____of two natural numbers is the smallest number that is a multiple of both numbers. In fraction form this same number is considered to be the _____ _____ _____.

4. (Section 3.3) You may only add or subtract fractions when you have _____ _____.

Problems ***Show ALL steps.***

1. (Section 2.7) Divide and simplify.
   a. $6 \div \frac{1}{5}$ b. $\frac{3}{5} \div \frac{5}{3}$

2. (Section 2.7) John Penna sells soybean seeds to seed companies. After he had driven 210 mi, $\frac{5}{6}$ of his sales trip was completed. How long was the total trip? How much of the trip is remaining?
   Translate and write the equation, then solve.

Name: _____ **Instructor:** _____

Date: _____ **Class Time:** _____

3. (Section 3.1) Fill in the blank to show the list method **AND** prime factorization method to find the LCM of 15, 30, and 25.

   15: 15, 30, _____, 60, _____, _____, 105, _____, 135, _____, 165, …
   30: _____, 60, _____, _____, 150, 180, ….
   25: 25, _____, 75, 100, _____, _____, 175, _____, …
   LCM=

   15= 3 · ____
   30= ___ · 5 · ___
   25= ___ · ___
   LCM= ___ · ____ · ____ · 5= _____

4. (Section 3.2) Add and simplify.

   a. $\frac{3}{5}+\frac{12}{5}$ b. $\frac{7}{12}+\frac{13}{18}$

5. (Section 3.3) Solve for x: $x+\frac{3}{5}=\frac{9}{10}$

6. (Section 3.3) At midnight on April 18, 2008 (Eastern Daylight Time), $\frac{19}{20}$ of the moon appeared illuminated. By April 27, 2008, the illuminated part was $\frac{16}{25}$.

   a. Show that $\frac{19}{20} > \frac{16}{25}$.

   b. How much less of the moon appeared illuminated on April 27 than April 18?

Name: _____ **Instructor**: _____

Date: _____ **Class Time**: _____