Web Assignment #2 – Fractions and Formulas

NAME:_____________________________________

Due: If turned into me by the beginning of next class I will correct this assignment for you and you will be able to use it to prepare for the next test. The score received on this assignment will not count toward your grade.

Add and simplify (Show work)

1. \(\frac{1}{4} + \frac{11}{8}\)  

2. \(\frac{5}{6} + \frac{3}{4}\)  

3. \(\frac{2}{3} + \frac{5}{6}\)  

Subtract and simplify (Show work)

4. \(\frac{7}{5} - \frac{2}{3}\)  

5. \(\frac{11}{6} - \frac{1}{3}\)  

6. \(6 - \frac{3}{5}\)  

Multiply and simplify (Show work)

7. \(\frac{2}{5} \cdot \frac{7}{11}\)  

8. \(\frac{1}{3} \cdot \frac{3}{2} \cdot \frac{2}{7}\)
Divide and Simplify (Show work)

9. \( \frac{3}{7} \div \frac{2}{3} = \) 

10. \( 5\frac{2}{7} \div \frac{3}{7} = \)

11. Find the area of a rectangle if the length is 2.5 feet and the width is 6 feet. (Show the formula for the area of a rectangle and your substitutions into it. Also, label your answer with an appropriate unit.)

12. Find the area of a rectangle if the length is 4 feet and the width is 13 inches. (Show the formula for the area of a rectangle and your substitutions into it. Also, label your answer with an appropriate unit.)

13. Find the area of a circle if the radius is 6.5 inches. Use \( \pi = 3.14 \) and \( A = \pi r^2 \). (Show your work and label your answer with an appropriate unit.)

14. \( F = \frac{9}{5}C + 32 \) is the equation for converting a Celsius temperature of \( C^\circ \) into Fahrenheit temperature of \( F^\circ \). Using this formula determine the Fahrenheit temperature that corresponds to 45 degrees Celsius. (Show work and label your answer with an appropriate unit.)