If you placed into ABE Math, MATH 60 or a higher-level course, this might be useful for you

Order of Operations, Ratios & Proportions

P arenthesis (inside) or [ ]
E xponents 2^3
M ultiplication
D ivision
A ddition +
S ubtraction -

Order of Operations

1. Parentheses and other grouping symbols
2. Exponents
3. Multiplication and division from left to right
4. Addition and subtraction from left to right

(Please!)
E^{x}cuse
My Dear
Aunt Sally!

Simplify.

1. $36 \div 3^2 + 4$

2. $72 + 30 \div 5 + 2 \times 2^3$

3. $9 - \left(\frac{1}{2}\right)^2 \cdot \frac{8}{9}$

4. $\left(\frac{1}{2}\right)^2 \cdot (5.8 - 1.8)\left(\frac{3}{5}\right)$

5. $35 - (25-17) + (12-10)^2 + 5 \bullet 2$

6. **Write as a ratio in simplest form**.   14 chairs to 12 people

7. **Find the unit rate. Then, state which car gets better gas mileage.**
A new Hybrid Toyota Prius can travel 135 miles on just 3 gallons of gas, while a new Hybrid Honda Civic 164 miles on just 4 gallons of gas.

Solve the proportions.

8. $\dfrac{15}{x} = \dfrac{6}{4}$

9. $\dfrac{5}{9} = \dfrac{x}{2}$

10. $\dfrac{\frac{1}{2}}{y} = \dfrac{\frac{1}{3}}{12}$

11. $\dfrac{0.4}{1.2} = \dfrac{1}{x}$

12. In a class of 28 students there are 5 books for every 2 students. How many books are there?

Answer key:

1. 8   2. 94   3. $8\frac{7}{9}$ *4.* $\frac{3}{5}$ *5. 41*   *6. 7 chairs to 6 people*

7. Prius is better, 45mpg compared to 41mpg   *8. x = 10*   *9. x =* $\frac{10}{9} = 1\frac{1}{9}$

10. y = 18   *11. x = 3*   *12. 70 books*

Need more help? Check out these ModumathAlgebra Lessons #1 and Modumath Basic Math Lessons # 2.8
http://modumath.org/mm/GraysHarbor.html