## SHOW ALL WORK!!!

- 1. The male to female ratio in China is 56 to 44. Write this ratio as a fraction in simplest form.
  - When a coach asked her team members what they wanted for dinner, 13 members wanted pizza while 5 wanted hamburgers. Identify two different ratios that could be made from this information. Explain each.

- 3. A bowl contains green, red and white marbles in the ratio 6:3:2. Based on this information, what does the ratio 5:11 represent?
- 4. Kareem can type 320 words in 5 minutes. He has applied for a job that requires typing 72 words per minute. Does Kareem meet this requirement? Explain your answer using mathematics.
- 5. Find the missing term of the proportion  $\frac{4}{5} = \frac{q}{65}$ .
- 6. Solve:  $\frac{9}{20} = \frac{n}{30}$

7. Write a proportion to describe the following: the school store sells 6 pencils for \$0.99. At this rate, how much would 16 pencils cost? Solve your proportion.

- 8. The serving size for a chocolate cake contains 280 calories. If there are 12 servings in one cake, how many calories are there in an entire cake? Use mathematics to support your answer.
- 9. An engineer is drawing plans for a new water tower. The tower is 84 feet tall and has a diameter of 28 ft. If the scale ratio is 1  $in:3\frac{1}{2}$  ft, what are the dimensions of the *model?* Use proportions to solve.
- 10. Becky picked \$0.22 out of a bag filled with \$2.00 worth of coins. Express the amount she picked as a percent of the total amount.
- 11. Which of the following equals the decimal 0.42?
  - a.) 42%
- b.)  $\frac{4.2}{100}$
- $\frac{4.2}{100}$  c.)  $\frac{4}{10}$ 
  - $\frac{42}{10}$  d.) 4.2%