Flashcards: Proportions

Directions: Answer the following questions.

- 1. The ratio of happy people to sad people is 15 to 2. If there are 75 happy people, how many are sad?
- 2. The ratio of oranges to apples in the fruit salad is 3 to 2. If 9 apples are used, how many oranges should be used?
- 3. An exchange student from China will average \$80 in spending each month for the 6 months he is here. By the end of his visit, he has spent a total of 3276.45 Chinese yuan. What is 1 Chinese yuan worth in US dollars?
- 4. A model is a 1:250 replica of the real thing. If the model is 1.2 feet tall, what is the size of the real thing?

## Answers:

- 1. Happy over sad equals 15 over 2 equals 75 over x. Cross multiply to get 15x equals 150. X equals 10. There are 10 sad people.
- 2. Oranges over Apples equals 3 over 2 equals x over 9. Cross multiply to get 27 equals 2x. 13.5 equals x. 13.5 oranges should be used.
- 3. Eighty dollars times 6 equals 480 dollars spent. Dollars over yuan equals 480 over 3276.45 equals x over 1. Cross multiply to get 480 equals 3276.45x. 0.1465 equals x. 1 Chinese yuan is worth 0.1465 US dollars.
- 4. Model over real equals 1 over 250 equals 1.2 over x. Cross multiply to get x equals 300. The real thing is 300 feet tall.