
HW 7-5**Int 1****Solving Proportions****Unit 7**

Assume the following situations are proportional. Write a proportion and solve.

1. Evan paid \$1.12 for a dozen eggs at a local grocery store. Determine the cost of 3 eggs.
2. Kari mixed 3 ounces of blue paint with 2 ounces of yellow paint. She decided to create 20 ounces of the same mixture. How many ounces of yellow paint does Kari need for the new mixture?
3. A car can travel 476 miles on 14 gallons of gas. How many gallons of gas does his car need to travel 578 miles?
4. Mrs. Baker paid \$2.50 for 5 pounds of bananas. How much would Mrs. Baker pay for 8 pounds of bananas?
5. A woman who is 64 inches tall has a shoulder width of 16 inches. Find the height of the woman who has a shoulder width of 18.5 inches.
6. At an amusement park, 360 visitors rode the roller coaster in 3 hours. Write and solve a proportion to find the number of visitors at this rate who will ride the roller coaster in 7 hours.

7. A powdered drink mix calls for a ratio of powder to water of 1:8. If there are 32 cups of powder, how many total cups of water are needed?

9. For every left-handed person, there are about 4 right handed people. If there are 30 students in a class, predict the number of students who are right-handed.

8. For every person who has the flu, there are 6 people who only have symptoms. If a doctor sees 40 patients, determine approximately how many patients you would expect to have only symptoms.

10. Jeremiah is saving money from a tutoring job. After the first three weeks, he saved \$135. Assume the situation is proportional. At this rate, how much will Jeremiah save after eight weeks?

11. A recipe for making 3 dozen muffins requires 1.5 cups of flour. At this rate, how many cups of flour are required to make 5 dozen muffins?

- a. 2 cups
- b. 2.5 cups
- c. 3 cups
- d. 3.5 cups

12. The line for the Cannibal at Lagoon is moving about 4 feet every 15 minutes. At this rate, approximately how long will it take for a person at the back of the 50-foot line to reach the front of the line?

- a. 1 hour
- b. 3 hours
- c. 5 hours
- d. 13 hours