

8.4 and 8.5: Writing and Solving Proportions

Name: _____

Period: _____

Write a proportion to represent each situation. Solve each proportion using cross products to find the missing information.

1. If 18 plums weigh 54 ounces, then 27 plums weigh x ounces.
2. If 40 nails hold 5 rafters, then 96 nails will hold r rafters.
3. If 32 addresses are on 2 pages of the address book, then a addresses are on 9 pages.
4. If 2 quarts fill 8 cups, then 5 quarts fill c cups.
5. If 360 inches of tape are on 3 spools, then t inches of tape are on 10 spools.
6. If 81 rivets are on 3 panels, the r rivets are on 13 panels.
7. If 60 sliced mushrooms are on 4 pizzas, how many sliced mushrooms are on 15 pizzas?
8. If 8 carpets form a 5-inch pile, how many carpets form a 30 inch-pile?

9. If Crystal assembles 3 clipboards in 2 minutes, then how many can she assemble in 15 minutes?

10. If a heart beats 98 times per minute, then how many times will it beat per hour?

11. If 1.5 ounces of oil are added to 1 gallon of gasoline, then how many ounces of oil are added to 6 gallons?

12. If an average person blinks 360 times in 30 minutes, how many times does the average person blink in 9 minutes?

13. A digital subscriber line (DSL) internet connection can transfer 42 megabits of information in 5 minutes. How long would it take to transfer 75.6 megabits?

14. On a sunny day, Mary, who is 5 feet tall, is standing outside and casting a shadow 12 feet long. The tall pine tree next to her is casting a shadow that is 78 feet long. How tall is the tree?

15. The ratio of the number of Taylor's music downloads to the number of David's music downloads is 7 to 8. Taylor has 84 music downloads. Together how many music downloads do they have?