**Tricky Ratio Word Problems**

1. The ratio of cats to dogs at the animal shelter is 7 to 5. There are a total of 108 cats   
   and dogs in the animal shelter. Determine how many cats are in the animal shelter.
2. The general contractor for the construction work hired 2 supervisors for every 17 workers. If the contractor hired 6 supervisors, how many workers were hired?
3. A rainstorm produced a rainfall of 2 inches per hour. How many hours would it take to get a rainfall amount of one foot?

**Check the Units!!!!**

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1. The ratio of men to women in the local chapter of the mason’s union is 7 to 5. If there are 35 men in the union, how many women are there?
2. The ratio of boys to girls at the party is 2 to 3. How many girls are at the party if there are a total of 75 guest at the party?
3. You find that your watch gains 2 minutes in 6 hours. How much will it gain   
   in 3 days?
4. It takes 618 brick to build 100 square feet of wall. A crew of masons on the project laid 2,163 bricks on Monday. How many square feet of wall did they build?
5. In a shipment of 400 parts, 14 are found to be defective. How many non-defective parts should be expected in a shipment of 1000?
6. If a watch is losing 1.5 minutes for every 12 hours that go by, how many minutes will it lose in one week?
7. It takes about 20 minutes to grade a student’s paper. How long, in hours, does it take to grade papers for a class of 25 people?
8. Five out of every seven households have cable TV.  If 42,000 households in a certain city have a TV, how many do not have cable TV?
9. The chance of a woman getting breast cancer in her lifetime is 1 out of 8. At this rate, how many women in a classroom of 32 women would be expected to come down with breast cancer in her lifetime?
10. A yard of fabric costs $12.99. How much will 2 feet cost?
11. A cement truck mixes 1 part of cement with 4 parts of sand. If 2.5 cubic yards of cement are used, how much sand is needed for the mixture?
12. Mary can read 22 pages in 30 minutes. How long would it take her to read a 100 page book? Write your answer in hours and minutes and round to the nearest minute, if needed.
13. Joseph drives 125 miles in 2 1 2 hours. At the same rate, how far will he be able to travel in 6 hours?
14. To determine the number of deer in a forest, a forest ranger tags 280 and releases them back into the forest. Later, 405 deer are caught, out of which 45 of them are tagged. Estimate how many deer are in the forest.