**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What is the percent of change from 20 to 27?

2. A 24,000-gallon pool is being filled at a rate of 40 gallons per minute. At this rate, how many minutes will it take to fill the pool ¾ full?

3. A generator can run for 11 hours on 3 gallons of gasoline. If the gasoline costs $3 per gallon, what is the cost per hour to run the generator?

4. Julie sells necklaces for $50 each. She sells 40 necklaces in a month at this price. If she applied a 10% discount to the price of her necklaces, she would sell an additional 10 necklaces in a month. How much additional money would Julie make in sales if she sold her necklaces with the 10% discount for a month?

5. A farmer returning home from the market must get across the river and return home with his three purchases, a dog, a chicken, and a bag of grain. However, he must take them in his boat. He cannot have more than one item with him on his boat at all times. He cannot leave the dog alone with the chicken because the dog will eat the chicken, and he cannot leave the chicken alone with the bag of grain because the chicken will eat the bag of grain.

Write the step by step instructions of how he gets all three of his purchases back home safely? **Do not use more than 10 instructions.**