1. Solve for x .

2. A storeowner made a list of the number of greeting cards sold last month. The store sold 167 thank-you cards, 285 birthday cards, and 56 blank cards. Based on these data, what is the probability that the next customer will buy a blank card?

3. The circumference of a circle is inches. What is the area, in square inches, of the circle? Express your answer in terms of .

**4.** Jasmine took a cab home from her office. The cab charged a flat rate of $4.00 plus $2.00 per mile. Jasmine paid $32 for the trip. How far does she live from her office?

**5**. A circular plate has a diameter of 9 inches. What is the area of the dish?

**6**. William invested $800 in an account that paid 5% simple interest per year.

a) How much interest did William earn over 3 years?

b) William withdrew all of his money from the account after 3 years. If the bank charged him a 2% withdrawal fee, how much money did William withdraw?

**7**. Andy, Brenda, and Carla are running a race. In how many different ways can the students finish in first, second and third place. List the sample space.