Name _____ Date _____ Class _____

Practice B
Compound Events

A can of vegetables with no label has a $\frac{1}{8}$ chance of being green
beans and a $\frac{1}{5}$ chance of being corn.

1. Explain why the events "green beans" or "corn" are mutually exclusive.

_____

2. What is the probability that an unlabeled can of vegetables
   is either green beans or corn?   _____

Ben rolls a 1–6 number cube. Find each probability.

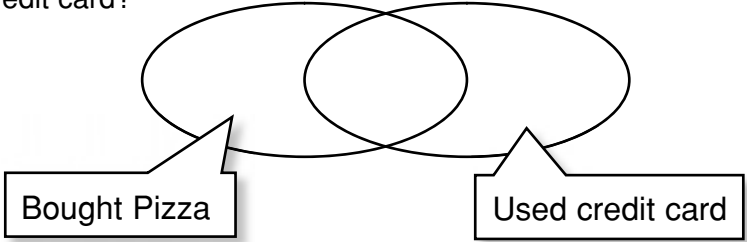3. Ben rolls a 3 or a 4.   _____

4. Ben rolls a number greater than 2 or an even number.   _____

5. Ben rolls a prime number or an odd number.   _____

**Of the 400 doctors who attended a conference, 240 practiced family
medicine and 130 were from countries outside the United States.
One-third of the family medicine practitioners were not from the
United States.**

6. What is the probability that a doctor practices family
   medicine or is from the United States?   _____

7. What is the probability that a doctor practices family
   medicine or is not from the United States?   _____

8. What is the probability that a doctor does not practice
   family medicine or is from the United States?   _____

Use the data to fill in the Venn diagram. Then solve.

9. Of the 220 people who came into the Italian deli on Friday, 104 bought
   pizza and 82 used a credit card. Half of the people who bought pizza
   used a credit card. What is the probability that a customer bought pizza
   or used a credit card?

Bought Pizza   Used credit card

Solve.

10. There are 6 people in a gardening club. Each gardener orders seeds
    from a list of 11 different types of seeds available. What is the probability
    that 2 gardeners will order the same type of seeds?   _____

Holt Algebra 2