

**8-5**

**Practice**

***Experimental and Theoretical Probability***

**TELEPHONES** For Exercises 1 and 2, use the following information.

Of the last 45 telephone calls received at a bank, 6 involved questions about Automatic Teller Machines (ATM) locations.

1. What is the probability that the next call will involve a question about the location of an ATM?
2. If 500 calls are received in one day, how many would you expect to be questions about ATM locations?
3. **ARCHERY** Julius hit the center of the target with 8 of his last 36 arrows. What is the experimental probability that he will hit the center with his next arrow?

**DRINKS** For Exercises 4 and 5, use the information about drinks ordered by 200 customers at a restaurant.

Drinks Ordered	
Drink	Number
Water	64
Milk	22
Coffee	35
Soft Drink	68
Other	11

4. What is the probability that a customer ordered milk?
5. On a day when the restaurant has 800 customers, how many would you expect to order milk?
6. **NEWSPAPERS** In the last 40 days, Mr. Neptune's newspaper has been delivered late 6 times. What is the experimental probability that it will be delivered late tomorrow?

**TECHNOLOGY** For Exercises 7 and 8, use the results of a survey of 80 teens at a school shown at the right.

Technology Device	Number Who Own
Cell Phone	45
Digital Camera	32
DVD Player	65
Laptop Computer	18

7. What is the probability that a teen at the school owns a digital camera?
8. Out of 750 students at the school, how many would you expect to own a digital camera?