LESSON 12.3

NAME _____ DATE _____

Practice B

For use with pages 716–722

Choosing Numbers You have an equally likely chance of choosing any integer from the set $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$. Find the probability of the given event.

1. An even number is chosen.

2. A prime number is chosen.

3. A multiple of 3 is chosen.

4. A two-digit number is chosen.

Farm Animals Your cousin lives on a small farm. She is a member of the 4-H Club and is showing nine animals at the county fair. Two of her animals won a blue ribbon (1st place), one won a red ribbon (2nd place), and three won white ribbons (3rd place). You do not know which animals won which prizes. You choose one of your cousin's animals at random.

5. What is the probability that the animal won a 1st place ribbon?

6. What is the probability that the animal won a ribbon?

7. What is the probability that the animal won a red or white ribbon?

Live Births **In Exercises 8–10, use the following information.**

Of all live births in the United States in 1996, 12.9% of the mothers were teenagers, 51.8% were in their twenties, 33.4% were in their thirties, and the rest were in their forties. Suppose a mother is chosen at random.

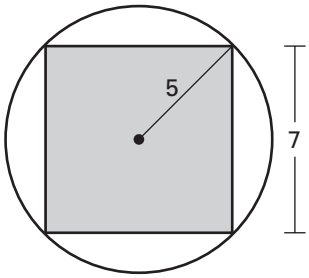
8. What is the probability that the mother gave birth in her twenties?

9. What is the probability that the mother gave birth in her twenties or thirties?

10. What is the probability that the mother gave birth in her forties?

11. ***Choosing Coins*** You have 8 pennies in your pocket dated 1972, 1978, 1979, 1985, 1989, 1991, 1993, and 1999. You take the coins out of your pocket one at a time. What is the probability that they are taken out in order by date?

12. ***Geometry*** Find the probability that a dart thrown at the given target will hit the shaded region. Assume the dart is equally likely to hit any point inside the target.



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