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Chapter 5 Section C Diagnostic Checkpoint

MULTIPLE CHOICE

- Which is the probability of tossing a number greater than 3 on a number cube? (5-12)
A. $\frac{1}{6}$ B. 1 C. $\frac{1}{2}$ D. 0
- Which event does not have equally likely outcomes? (5-10)
A. Tossing a coin C. Tossing a number cube
B. Spinning a spinner with two sections of equal size D. Choosing a vowel from the word MATH

FREE RESPONSE

Use the letters in the word RABBIT. (5-10)

- What are two letters that are equally likely to be picked?
- Which is more likely, picking a vowel or picking a consonant?
- What is an impossible event, involving picking a letter in the word RABBIT?

Use the data in the table at the right. (5-11)

- Draw a tree diagram to determine how many different outfits Hillary has packed that consist of pants and a top.
- How many outfits include khaki pants?
- How many outfits include jeans and a sweatshirt?

Hillary's Suitcase for Camping

Pants	Tops
Jeans	T-Shirt
Khaki pants	Sweatshirt
Sweat pants	

Using the letters in the word MATHEMATICS, find the probability of choosing each letter or letters randomly out of a bag. (5-12)

9. a vowel 10. the letter M 11. not T 12. the letter S

Suppose you toss a nickel and a quarter. (5-12)

13. Find P (two heads) 14. Find P (no tails) 15. Find P (1 head, 1 tail)

Writing in Math

- Explain how to construct a spinner so that all outcomes are equally likely. (5-10)
- Explain how to determine which event is most likely to occur when spinning a spinner with unequal sections. (5-10)
- Suppose you wrote each of the letters of the word MISSISSIPPI on a slip of paper and put the slips in a bag. Describe an event that is likely. Describe an event that is unlikely. (5-11)