Unit: Probability Student Handout 6 Name\_\_\_\_\_

Date \_\_\_\_\_

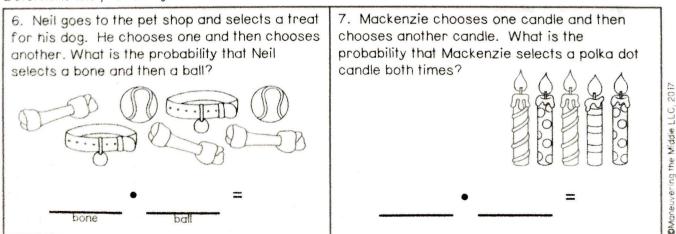
Pd

## DEPENDENT EVENTS

| When the ou  | tcome of one                                  | _ impacts the                       | of          |  |
|--|---|-------------------------------------|-------------|--|
| another, it is a dependent event.  |   |                                     |             |  |
| Read each situation below and determine if it is an independent or a dependent event.                            |   |                                     |             |  |
|  | 1. Flipping two coins results in on           | e landing on heads and one landing  | g on tails. |  |
| -  | 2. The captain of the football tear selected. | n is selected and then the co-capto | ain is      |  |
|  | 3. You draw a joker from a deck               | of cards, and then you draw an ac   | e.          |  |
| and the second | 4. You draw a queen from a deck               | of cards, replace it, and then dra  | w a 10.     |  |
|  | 5. A coin is flipped and a number             | cube is rolled.                     |             |  |
|  |   |                                     |             |  |
|  |   |                                     |             |  |
| INDEPENDENT  | $P(A \text{ and } B) = \ \bullet$             |                                     |             |  |

 DEPENDENT
 P(A and B) = \_\_\_\_\_•

Determine the probability of the events below.



| Unit: Probability   | Name   |  |
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|   | DEPENDENT EVENTS                                       | Info<br>Prime # - has 2 factors -<br>1 and itself    |
| se the details about the game                                     | o answer the questions below.                          | · Divisible means when you                           |
| In a board game, students draw<br>Determine the probability of eq | w a number, do not replace it, and                     |  |
| Bereinine me probability of ed                                    |  | \$#  |
| 16  | 6 9 2  | I 6 2  |
| 1. Drawing an odd number,<br>then drawing a 6                     | 2. Drawing a 2, then drawing another 2                 | 3. Drawing a number divisible by 3, then drawing a 1 |
|   |  |  |
| 4. Drawing a 1, then drawing a 6                                  | 5. Drawing a prime number,<br>then drawing a composite | 6. Drawing a 9, then drawing another 9               |
|   | number   |  |
|   | 1 is not prime or composite.                           |  |
| 7. Drawing a 9, then drawing a number divisible by 1              | 8. Drawing an even number, then drawing 1              | 9. Drawing a 6, then drawing an odd number           |
|   |  |  |
|   |  |  |
|   |  |  |

Choose the best answer below for question 10.

10. Harmony places the letters in the word DECEMBER into a bag. A letter will be randomly selected and not replaced. Then another letter will be selected. What is the probability of Harmony selecting a C and then an E? A.  $\frac{4}{8}$  B.  $\frac{3}{56}$ C.  $\frac{6}{64}$  D.  $\frac{1}{8}$