Tier A

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 inde	ependent or a dependent event.			
	1. Flipping two coins results in one	e landing on heads and one landing	g on tails.		
Mark of the option of the arministration and a face popular data in the company of the company o	2. The captain of the football tean selected.	n is selected and then the co-capt	ain is		
	3. You draw a joker from a deck o	of cards, and then you draw an ac	ce.		
	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.			
	f				
INDEPENDENT PROBABILITY	P(A and B) = • _				
DEPENDENT	P(A and B) =•_				
***************************************		stil alogen is not	+ replace		

Determine the probability of the events below, if the 1st item chosen is not replaced

6. Neil goes to the pet shop and selects a treat 7. Mackenzie chooses one candle and then

another. What is the probability that Neil selects a bone and then a ball?

for his dog. He chooses one and then chooses

7. Mackenzie chooses one candle and then chooses another candle. What is the probability that Mackenzie selects a polka dot candle both times?

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Use the details about the game to answer the questions below.

In a board game, students draw a number, do not replace it, and then draw a second number. Determine the probability of each event occurring. Not prime Comp. Not prime Not composite Composite composite 3. Drawing a number divisible 1. Drawing an odd number. 2. Drawing a 2, then drawing by 3, then drawing a 1 then drawing a 6 another 2 Divisible by 3: 6,9 6. Drawing a 9, then drawing 4. Drawing a 1, then drawing 5. Drawing a prime number, another 9 then drawing a composite a 6 number 9. Drawing a 6, then drawing 8. Drawing an even number, 7. Drawing a 9, then drawing an odd number then drawing 1 a number divisible by 1 (all the #s are divisible by 1)

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. $\frac{3}{56}$

DECEMBER (How many letters?

- C. $\frac{6}{64}$
- D. $\frac{1}{8}$