Name	Answers		
Date		Pd	

Maneuvering the Middle LLC, 2017

## INDEPENDENT EVENTS

Review the process for multiplying fractions.

Unit: Probability Student Handout 5



Carefully read each problem and solve.

Kylee has a coin and a number One card from a deck of cards is There are six marbles in a bag. cube. She flips the coin once and selected, it is replaced, and Three are green, and three are rolls the number cube once. What yellow. If you draw a marble, another card is chosen. What is is the probability that the coin the probability that the first card replace it, and then draw another, lands tails-up and the cube lands is a red card and the second is a then what is the probability of on a 4? diamond? choosing two yellow marbles?  $\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$  $\frac{26}{52} \times \frac{13}{52} = \frac{1}{8}$ Dexter has four different coins in What is the probability of flipping Neil goes to the pet shop and his pocket. He randomly selects a three heads in a row? selects a treat for his dog. He coin from his pocket, replaces it, chooses one, returns it to the and selects another coin. What is  $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{8}$ bunch, and then chooses another. the probability that both coins are What is the probability that Neil selects a bone and then a collar? dimes?  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ The letters of the alphabet are Two number cubes are rolled Mackenzie chooses one candle, written on cards and placed in a sequentially. What is the returns it to the bunch, and then brown paper bag. What is the probability that the first number chooses another candle. What is probability of drawing a vowel (noty cube shows a two or a three and the probability that Mackenzie replacing it, and then drawing the other number cube shows an selects a polka dot candle both even number? another vowel? times?  $\frac{2}{6} \times \frac{3}{62} = \frac{1}{6}$  $\frac{5}{26} \times \frac{5}{26} = \frac{25}{126}$