

Candy survey for Wednesday's packet: Which one do you like best of these 3?

7L: 7R:

Milky Way Bar:

Sour Patch Kids:

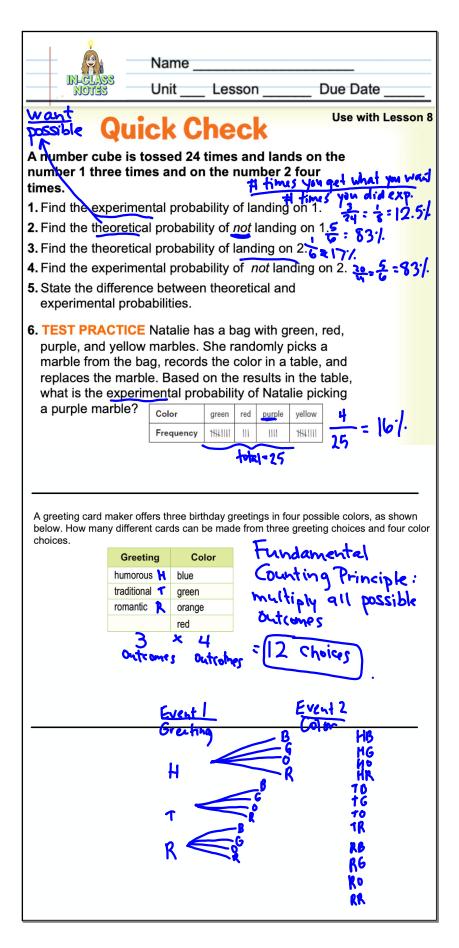
Tootsie Roll Pop:

Milky Way Bar:

Sour Patch Kids:

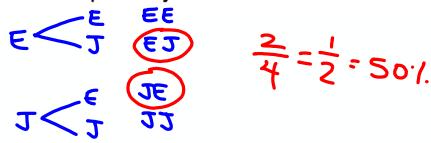
Tootsie Roll Pop:

3



## Find the probability of each, then make a tree diagram to find all possible outcomes.

Emilio has 2 counters. Each counter has one side marked with an E and the other side marked with a J, for Jacob. Both counters are tossed. If one counter lands with E up and the other lands with J up, Emilio wins. Otherwise, Jacob wins. What is the probability that Emilio will win?



The student government consists of a president, vice president, and treasurer. The candidates for president are Jackson, Juan, and Megan; the candidates for vice president are Jaque and Carlos; and the candidates for treasurer are Li, Jacob, and Carl. How many ways are there to choose a president, vice president, and treasurer?

A toy robot moves straight ahead until it hits an obstacle. Then it turns, with equal chances of turning left or right. If the robot makes three turns, what is the probability that all three will be left turns?

Henry rolls a number cube and tosses a coin. What is the probability that he will roll a 3 and toss heads?

### Independent vs Dependent Events:

independent vs Dependent Events.
In <b>probability</b> , two <b>events</b> are <b>independent</b> if the incidence of one <b>event</b> does not affect the <b>probability</b> of the other <b>event</b> . If the incidence of one <b>event</b> does affect the <b>probability</b> of the other <b>event</b> , then
the <b>events</b> are dependent.

#### Lesson 8 Skills Practice

#### **Probability of Compound Events**

Draw a tree diagram to find the number of outcomes for each situation.

1. Three coins are tossed.

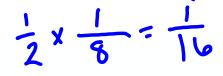
2. A number cube is rolled and a coin is tossed.

## Find the total number of outcomes in each situation.

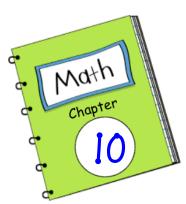
- One card is drawn from a standard deck of cards.
- 5. One coin is flipped three consecutive times.
- 7. A sweater comes in 3 sizes and 6 colors

Find each probability.

- Draw the ace of spades from a standard deck of cards.
- Draw the six of clubs from a standard deck of cards.
- 13. Roll a 7 or an 8 on an eight-sided die.
- 15. Draw a club from a standard deck of cards.
- 17. A coin is tossed and an eight-sided die is rolled. What is the probability that the coin lands on tails, and the die lands on a 2?



- ${\bf 4.}\ Three\ six-sided\ number\ cubes\ are\ rolled.$
- One coin is flipped and one eight-sided die is rolled.
- A restaurant offers dinners with a choice each of two salads, six entrees, and five desserts.
- 10. A coin is tossed twice. What is the probability of getting two tails?
- Roll a 4 or higher on a six-sided number cube.
- Roll an even number on an eight-sided die.
- Roll an odd number on a six-sided number cube.
- 18. A coin is tossed and a card is drawn from a standard deck of cards. What is the probability of landing on tails and choosing a red card?



# rerue: Statistics

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Date	Lesson	Topic/Assignment
4/29		Measures of Center Packet
4/30	2	Measures of Variability Packet
5/3	1-2	HW Practice WS
5/4	3	MAD Video Notes
5/6	3 3 3	#2 and #5 Practice WS
5/6	3	In-Class Question
5/6	3	Reteach WS
5/17	6	Probability of Simple Events Notes
5/17	6	Skills WS
5/19	6	Task Cards Activity
5/20	7	Theoretical vs Experimental Probability VN
5/20	7	In-Class Notes
5/24	8	In-Class Notes
5/24	8	Skills WS
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