Unit:	Probability

Name	
Date	Pd

SAMPLE SPACE

SAMPLE

- The sample space describes all of the possible ______ of an event.
- Sample space can be _____ with lists, tables, or tree diagrams to determine the probability of ____ or ____ events.
- 1. The New England Patriots and the Dallas Cowboys are playing. What are the possible outcomes of the game?
- 2. A number cube is rolled. What are the possible outcomes?

LIST OR TABLE

- 3. For breakfast Jamie can choose from cereal, eggs, or a muffin. She also can drink coffee, orange juice, or milk. What are all the possible outcomes? How many total outcomes are possible?
- 4. At registration a student can select from Spanish or German class, as well as Art, Music, or Theater. What are all the possible outcomes? How many total outcomes are possible?

TREE DIAGRAM

5. A fair coin is tossed three times. What are all the possible outcomes? How many total outcomes are possible?

Oregie a list. Then, use the information to answer the question. 6. Amanda will roll a number cube and flip a 7. The two spinners below are spun at the coin. If Amanda rolls the number cube once same time. What are all the possible outcomes and flips the coin once, then what are the of the two spins? possible outcomes in which the number cube lands on an odd number?



Create a tree diagram. Then, use the information to answer the questions.

9. When buying a car, Esther can choose a 2-8. A clothing line has shirts in red, blue, or door or 4-door car with leather or cloth white and pants in gray or khaki. interiors in black, silver, or white.

- a. How many different combinations can be made with the clothing line?
- b. How would adding a green shirt to the clothing line change the tree diagram above? How would that change the number of possible outcomes? Justify your thinking.
- a. How many different combinations can be made with the car options?
- b. The car dealership discontinues the cloth interiors on that model. How would that change the tree diagram above and the number of possible outcomes? Justify your thinking.

Summarize today's lesson:

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SAMPLE SPACE

The number cube is rolled and a coin is tossed. Answer the questions below.

1. Sketch a tree diagram to represent the sample space.



- 2. How many different combinations are possible?
- 3. Which list contains only the outcomes in which the number cube lands on a number less than 4?

List 1 1, heads 1. tails

List 2 1, heads

List 3 1. tails

2. heads

2, tails

2, heads 2. tails

3, heads 4, heads 3, tails

3, heads

3. tails

Answer the questions below.

4. Sketch a tree diagram to represent the sample space of flipping each of the

following coins once





- 5. Jason is ordering a kids meal. He can choose from the following:
- · Chicken nuggets, burger, hot dog
- · Apple juice or milk
- · French fries or fruit

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The list below shows some of the possible outcomes. List the missing possible outcomes below.

6 Tyra will flip a red and yellow counter and spin a spinner labeled A.E. If Tyra flips the counter and spins the spinner, then list only the outcomes in which a red counter and a vowel are spun.

Chicken nuggets, apple juice, French fries Chicken nuggets, apple juice, fruit Chicken nuggets, milk, French fries Chicken nuggets, milk, fruit Burger, apple juice, French fries Burger, milk, French fries Burger, apple juice, fruit Hot dog, apple juice, French fries Hot dog, milk, French fries Hot dag, milk, fruit