

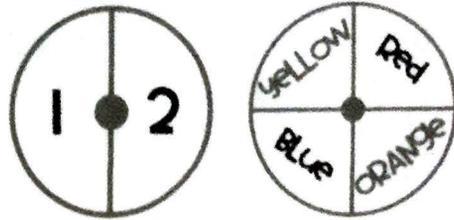
Create a list. Then, use the information to answer the question.

6. Amanda will roll a number cube and flip a coin. If Amanda rolls the number cube once and flips the coin once, then what are the possible outcomes in which the number cube lands on an odd number?

Cube has ~~two~~ what options?

List
↓

7. The two spinners below are spun at the same time. What are all the possible outcomes of the two spins?



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

8. A clothing line has shirts in red, blue, or white and pants in gray or khaki.



Finish the tree diagram.

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.

9. When buying a car, Esther can choose a 2-door or 4-door car with leather or cloth interiors in black, silver, or white.

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.

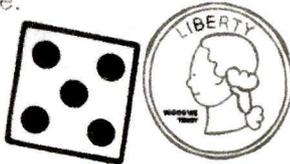
TRY ON YOUR OWN!

Summarize today's lesson:

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.



- 1 <
2 <
3 <
4 <
5 <

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 | List 2 | List 3 |
|----------|----------|----------|
| 1, heads | 1, heads | 1, tails |
| 1, tails | 2, heads | 2, tails |
| 2, heads | 3, heads | 3, tails |
| 2, tails | 4, heads | |
| 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

Helps to draw this one out.

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

- 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 dog, milk, fruit

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.