Date $\qquad$ Pd. $\qquad$

## SAMPLE SPACE

- The sample space describes all of the possible outcomes of an

SAMPLE
SPACE
event.

- Sample space can be displayed with lists, tables, or tree diagrams to determine the probability of simple or compound events.

1. The New England Patriots and the Dallas Cowboys are playing. What are the possible outcomes of the game? Patriots Win or Cowboys Win.
2. A number cube is rolled. What are the possible outcomes?
$1,2,3,4,5,6$


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？


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．

c．How many different combinations can be made with the clothing line？

$$
6
$$

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．
it would add 2 more
possibilities

Summarize today＇s lesson：

Date $\qquad$ Pd $\qquad$

## SAMPLE SPACE

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

2. How many different combinations are possible?

10 combinations
3. Which list contains only the outcomes in which the number cube lands on a number less than 4?


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

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


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


