

Name: Class:

Compound events: find the number of outcomes by counting

1. You flip a coin and roll a dice. How many outcomes are possible?
2. You flip a coin and spin a spinner with 4 numbered sections. How many outcomes are possible? Solve on rough work sheets and write your answer in the blank space below.
3. Suppose Rita flips three coins and rolls a 6-sided die. How many possible outcomes are there?
4. If you flip a penny five times, find the possible outcomes.
5. Yesterday, my colleague and I played a game of picking a number and rolling a 6-sided die. If the game was to pick six numbers and roll a die, how many possible outcomes were possible?
6. Today, Tom told his friend that if each time he picks a letter from the word FIVE, he rolls a 6-sided die thrice. How many possible outcomes are there?
7. Yesterday, my dentist and I played a game of picking a number and rolling a 6-sided die. If the game was to pick six numbers and roll a die, how many possible outcomes were possible?

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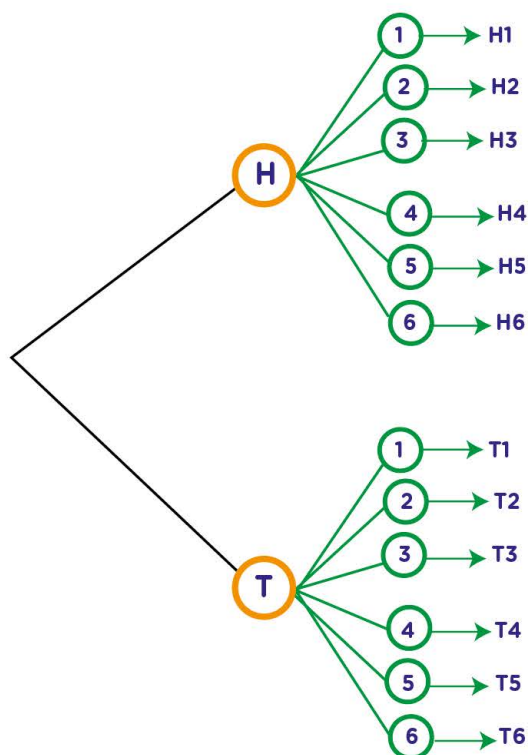
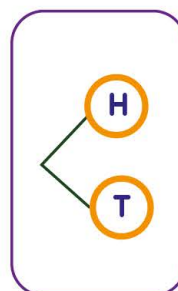
1. You flip a coin and roll a dice. How many outcomes are possible?

Draw a tree diagram to solve this problem.
The branches of the tree diagram are the outcomes.

The first event has 2 outcomes; heads (H) and tails (T).

The second has 6 outcomes; 1, 2, 3, 4, 5, and 6.

Make the tree diagram.



Now count the number of branches
There are 12 branches.

So, there are 12 possible outcomes.

2. You flip a coin and spin a spinner with 4 numbered sections. How many outcomes are possible? Solve on rough work sheets and write your answer in the blank space below.

So, there are 8 possible outcomes.