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## Sample Spaces of <br> Compound Events

The sample space of an event is the set of all possible outcomes. To find sample spaces of compound events, you can use tree diagrams, tables, or organized lists.

## Let's try it!

Find the sample space of spinning the spinner below and flipping a coin.


The spinner can land on 1,2 , or 3 . The coin can land on heads (H) or tails ( T ).

Tree Diagram



Table

|  | Heads | Tails |
| :---: | :---: | :---: |
| 1 | $\mathbf{1 , H}$ | $\mathbf{1 , T}$ |
| 2 | $\mathbf{2 , H}$ | $\mathbf{2 , T}$ |
| 3 | $\mathbf{3 , H}$ | $\mathbf{3 , T}$ |

Organized list
\{(1, H), (1, T),
( $2, \mathrm{H}$ ), ( $2, \mathrm{~T}$ ),
(3, H), (3, T)\}

The tree diagram, table, and organized list all show that there are 6 possible outcomes in the sample space.

Find the sample space. Use a tree diagram, table, or organized list to help. Then write the number of possible outcomes in the sample space.

1. Find the sample space of flipping two coins.


There are
$\qquad$
possible outcomes in the sample space.

## Sample Spaces of Compound Events

Keep going! Find the sample spaces. Use a tree diagram, table, or organized list to help. Then write the number of possible outcomes in the sample space.
2. Find the sample space of spinning the spinner below and flipping a coin.


There are
possible outcomes in the sample space.
3. Find the sample space of flipping a coin and rolling a six-sided die.


There are
possible outcomes in the sample space.
4. Find the sample space of spinning the spinner below and rolling a six-sided die.


There are
possible outcomes in the sample space.

## Sample Spaces of Compound Events

Keep going! Find the sample spaces. Use a tree diagram, table, or organized list to help. Then write the number of possible outcomes in the sample space.
5. Find the sample space of spinning the two spinners below.


There are
$\qquad$
possible outcomes in the sample space.
6. Find the sample space of rolling two six-sided dice.


There are
$\qquad$
possible outcomes in the sample space.

## Challenge yourself! Find the sample space. Use a tree diagram or organized list to help. Then write the number of possible outcomes in the sample space.



