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## Sample Spaces and The Counting Principle

Date $\qquad$ Period $\qquad$

## Represent the sample space using set notation.

1) A sandwich shop has three types of sandwiches: ham, turkey, and chicken.
2) The chess club must decide when to meet for a practice. The possible days are Tuesday, Wednesday, or Thursday. The possible times are 3,4 , or 5 p.m.
3) A spinner can land on either red or blue. You spin and then roll a six-sided die.
4) The chess club must decide when to meet for a practice. The possible days are Tuesday, Wednesday, or Thursday.
5) When a button is pressed, a computer program outputs a random odd number greater than 1 and less than 9 . You press the button twice.

## Find the number of possible outcomes in the sample space.

7) A jewelry store sells gold and platinum rings. Each ring is fitted with a ruby, sapphire, emerald, or diamond gemstone.
8) A spinner can land on either red, blue, or green. You spin twice.
9) Six books need to be placed on a shelf. You randomly arrange the books on the shelf from left to right.
