Algebra 2 Home Instruction Mrs. Bledsoe
Name

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## 7th \& 9th Periods - Probability: Sample Spaces \& More May 11, 2020 Period

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Represent the sample space using set notation.

1) A basket contains one apple, one peach, and one orange. You randomly pick a piece of fruit.
2) A bagel shop has three types of bagels: plain, onion, and raisin.
3) A room in a house needs to be painted. The room can be painted either white or yellow.
4) A jewelry store sells rings with either a ruby, sapphire, emerald, or diamond gemstone.
5) The band must decide when to meet for a practice. The possible times are 3,4 , or 5 p.m.

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

6) A basketball player attempts five free throws. Each attempt results in a score or a miss.
7) A math quiz has seven true/false questions.

## Find the probability.

9) A litter of kittens consists of three gray kittens, two black kittens, and three mixed-color kittens. You randomly pick one kitten. The kitten is gray or mixed-color.
10) When a button is pressed, a computer program outputs a random even number greater than 0 and less than 8 . You press the button four times.
11) A bag contains five yellow jerseys numbered one to five. The bag also contains three purple jerseys numbered one to three. You randomly pick a jersey. It is purple or has an even number.
