Probability - Mutually Exclusive Events

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fun and interactive math for all.

Solve and show all steps.

Maria has a bag of candies. There are 5 red candies, 3 blue candies, and 2 green candies. If she picks one candy at random, what is the probability that it is a red candy or a blue candy?	A standard deck of 52 playing cards is used. What is the probability of drawing a black king or a red queen?
At a school fair, a spinner is used for a game. The spinner is divided into 8 equal sections labeled with numbers 1 through 8. What is the probability of landing on an even number or a number less than 3?	A local bakery sells various types of muffins. On a particular morning, they have 15 blueberry muffins, 10 chocolate chip muffins, and 8 bran muffins. If a customer buys one muffin at random, what is the probability that they buy a blueberry muffin or a bran muffin?
In a group of 25 students, 12 play soccer, 8 play basketball, and 5 play both. If a student is chosen at random, what is the probability that the student plays soccer or basketball?	A six-sided die is rolled. What is the probability of rolling a 1 or a 6?
A box contains 10 slips of paper, each with a different number from 1 to 10 written on it. If you draw one slip of paper at random, what is the probability that the number is a multiple of 3 or a prime number?	In a survey of 100 people, 40 said they prefer coffee, 30 said they prefer tea, and 15 said they prefer both. If a person is chosen at random from this group, what is the probability that they prefer coffee or tea?
A basket contains different types of fruit: 4 apples, 3 oranges, and 2 bananas. If a piece of fruit is selected at random, what is the probability that it is an apple or an orange?	Emily is playing a board game where she needs to roll a pair of standard six-sided dice. To win, she needs to roll a sum of 2 or a sum of 12. What is the probability of her winning on her next roll?

Solve and show all steps.

4/5	1/13
5/8	23/33
3/5	1/3
3/5	11/20
7/9	1/18