

## Simple Probability

Name \_\_\_\_\_

A bag contains 3 red marbles, 2 white marbles, 5 maroon marbles and 2 blue marble.

1)  $P(\text{red marble}) =$

2)  $P(\text{green marble}) =$

3)  $P(\text{maroon marble}) =$

4)  $P(\text{not a blue marble}) =$

Roll two dice and add up what numbers show.

5) Make a tree diagram to show all possible outcomes.

6)  $P(\text{sum of 9}) =$

7)  $P(\text{sum of 12}) =$

8)  $P(\text{sum more than 9}) =$

9) What sum has the lowest probability? What is it?

A deck of cards has 4 suits (hearts, diamonds, spades and clubs). Each suit has 13 cards (2 - 10, jack, queen, king, ace). Hearts and diamonds are red cards. Clubs and spades are black cards. Face cards are jack, queen and king.

10)  $P(\text{picking a spade}) =$

11)  $P(\text{numbered card}) =$

12)  $P(\text{black card}) =$

13)  $P(\text{even numbered card}) =$