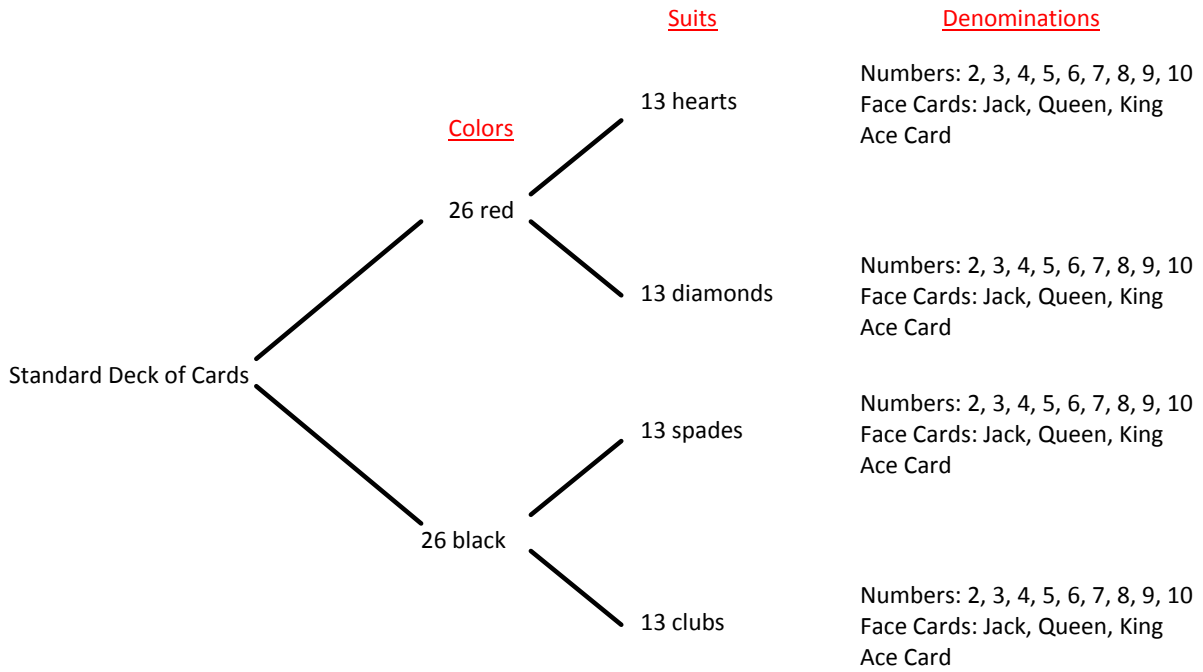


Probability with "And" and "Or"



Sample Space - the possible outcomes

Hearts

Seven

Heart "and" a Seven

Heart "or" a Seven

Face Card

Black Card

Face "and" a black card

Face "or" a black card

1. A card is drawn from a standard deck of cards. Find the probability that you will draw a:

a) A heart or a seven

b) A heart and a face

c) A jack or a king

d) A spade or a nine

2. In a freshman class, students are enrolled in either Algebra 1 or Geometry. Use the table to answer each question.

	Algebra 1	Geometry	Total
Girls	50	33	83
Boys	65	32	97
Total	115	65	180

a) How many students are freshmen?

b) How many students are taking Algebra 1?

c) What is the probability that a student takes Geometry?

d) What is the probability that a student is a girl and takes geometry?

e) What is the probability that a student is a boy or takes geometry?