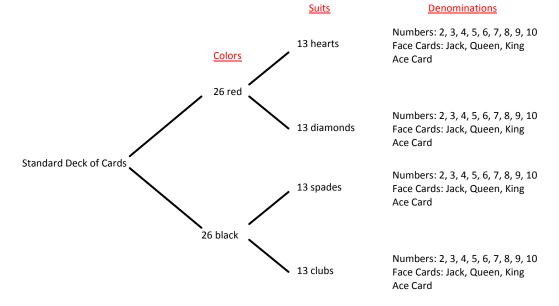
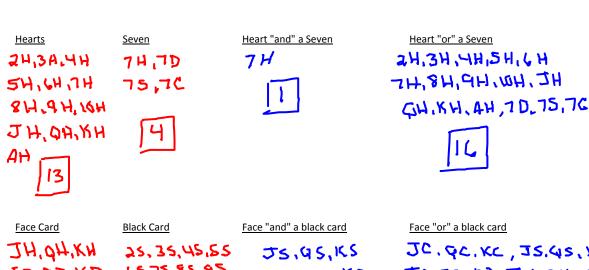
## Probability with "And" and "Or"



## Sample Space - the possible outcomes



JH, QH, KH 25, 35, 45, 55 J5, 45, K5

JD, QD, KD L5, 75, 85, 45

JC, QC, KC

JS, QS, KS SC, 4C, 4C

JS, QS, KS SC, 4C, 7E, 8C

GC, 1GC, 7E, 8C

KC, AC TOTI

JC. QC. KC, JS. US, KS

JC. QC. KC, JS. US, KS

JC. QC. KC, JS. US, KS

JC. QC. KC, JC, US, KS

SC. LC. JC. SC. GC, 10C

AC JL

AC JL

- 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

c) A jack or a king

b) A heart and a face

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?



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

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

b) How many students are taking Algebra 1?



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

 $\frac{97 + 65 - 32}{180} = \frac{130}{180} = \frac{13}{18}$