

Ch 3.3 Addition Rule (OR)

Compound Event: 2 or more events

Mutually exclusive: events can't occur at the same time.

Ex) P(king or a 4): get a king and a 4

Not) P(heart or a king): get a king of hearts

Formula: $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$

Apr 4-11:21 AM

Ex1a) P(king or heart)

Ex 1b) P(ace or spade)

Ex1c) P(4 or king)

Ex 1d) P(heart or face card)

Apr 4-11:28 AM

Ex 2) 10 boys: 2 A's, 4 B's, 4 C's on their test
5 girls: 2 A's, 1 B, 2 C's on their tests

a) Find the P(Girl or B is chosen)

b) Find the P(Boy or C is chosen)

Apr 4-11:30 AM

Ex3) Bag of marbles: 4 blue, 3 red, and 2 green

a) P(red or blue is chosen)

b) P (green or blue)

Apr 4-11:33 AM