## Probability – Cards and Dice

## Матн 105

A card is drawn from a fair poker deck.

- P(red or ♠)
- What is the probability that the card is a seven or a spade (♠)?

A card is drawn from a fair poker deck.

- P(▲ or an even numbered card)
- P(red card or a face card)

A card is drawn from a fair poker deck.

- P(face card or ♥)
- P(lettered card or a red card)
- P(even numbered card or a face card)

A card is drawn from a fair poker deck.

- P(odd numbered card or a black card)
- P(eight or an Ace)
- P(numbered card or a ♦)

A pair of fair six-sided dice is rolled.

- P(at least one die displays a 2 or the sum is seven)
- P(only one die displays a 2 or the sum is five)
- P(doubles or the sum is odd)

A pair of fair six-sided dice is rolled.

- P(sum of the numbers is seven and the sum is not odd)
- P(sum of the numbers is seven or the sum is not odd)
- P(sum is four or the second die displays a four)

A pair of fair six-sided dice is rolled.

- P(sum is not one)
- P(sum is more than twelve)
- P(sum is at least five or the product is divisible by 5)