Basic Probability

Name _____

Date _____ Period _____

The probability of an event, E, occurring is defined as...

$$P(E) = \frac{\text{Number of ways } E \text{ can occur}}{\text{Number of possible outcomes}} = \frac{n(E)}{n(S)}$$

What is the probability of rolling a 2 on a standard die?

The probability of an event, E, occurring is defined as...

$$P(E) = \frac{\text{Number of ways } E \text{ can occur}}{\text{Number of possible outcomes}} = \frac{n(E)}{n(S)}$$

What is the probability of rolling an odd number on a standard die?

The probability of an event, E, occurring is defined as...

$$P(E) = \frac{\text{Number of ways } E \text{ can occur}}{\text{Number of possible outcomes}} = \frac{n(E)}{n(S)}$$

Let $S = \{a, b, c, d, e, f, g, h\}$ and event $X = \{a, b, g\}$ and $Y = \{g, h\}$ and $Z = \{a, b, c, d, e, f\}$

$P(X) =$ $P(Y) =$ $P(Z) =$

The probability of an event, E, occurring is defined as...

$$P(E) = \frac{\text{Number of ways } E \text{ can occur}}{\text{Number of possible outcomes}} = \frac{n(E)}{n(S)}$$

Let $S = \{a, b, c, d, e, f, g, h\}$ and event $X = \{a, b, g\}$ and $Y = \{g, h\}$ and $Z = \{a, b, c, d, e, f\}$

$P(X \cap Z) =$

The probability of an event, E, occurring is defined as...

$$P(E) = \frac{\text{Number of ways } E \text{ can occur}}{\text{Number of possible outcomes}} = \frac{n(E)}{n(S)}$$

Let $S = \{a, b, c, d, e, f, g, h\}$ and event $X = \{a, b, g\}$ and $Y = \{g, h\}$ and $Z = \{a, b, c, d, e, f\}$

$P(Y \cup Z) =$