

Examples.

Free throw example! One shot.

$P(\text{Thonson makes shot}) = 0$, impossible.

$P(\text{Mia makes shot}) = 0.1 = \frac{1}{10}$

$P(\text{James makes shot}) = .7 = \frac{7}{10}$.

$P(\text{Daniel makes shot}) = 1 = 100\%$.

Certain events. \nearrow

For any event A , $P(A) = \frac{\# \text{ of ways } A \text{ happens}}{\text{total } \# \text{ of possibilities}}$.

Flip a coin, $P(H) = \frac{1}{2}$.

* $0 \leq P(A) \leq 1$

Sum of the probabilities of all outcomes must equal to 1.

$A \text{ or } B = A \cup B$ if mutually exclusive, $A + B$

$A \text{ and } B = A \cap B$ if mutually exclusive, 0.

Mutually exclusive, can't happen together.

$$1. \frac{288}{759}$$

$$2. \frac{471}{759}$$

$$3. \frac{494}{759}$$

$$4. \frac{173}{759}$$

$$5. \frac{196}{759} + \frac{173}{759}$$

$$6. \frac{265}{759}$$

$$7. \frac{759 - 298}{759}$$

$$8. 1$$

$$9. 0.$$

$$10. \frac{92}{288}$$

$$11. \frac{92}{265}$$