

Odds



$$P(\text{red}) = \frac{4}{7}$$

$$\text{Odds in Favor} = \frac{\text{Number of Favorable Outcomes}}{\text{Number of Unfavorable Outcomes}}$$

$$\frac{4}{3}$$

$$4 \text{ to } 3$$

$$4:3$$

$$\text{Odds Against} = \frac{\text{Number of Unfavorable Outcomes}}{\text{Number of Favorable Outcomes}}$$

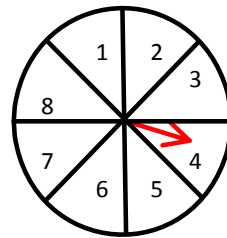
$$\frac{3}{4}$$

$$3 \text{ to } 4$$

$$3:4$$

1. What is the probability of the spinner landing on the number 4?

$$\frac{1}{8}$$



2. What are the odds in favor of the spinner landing on the number 4?

$$\frac{1}{7} = 1:7$$

3. What are the odds against the spinner landing on the number 4?

$$\frac{7}{1} = 7:1$$

4. What is the probability of a fair six sided die landing on an even number?

1, 2, 3
4, 5, 6

$$\frac{3}{6} = \boxed{\frac{1}{2}}$$

5. What are the odds in favor of a fair six sided die landing on an even number?

$$\frac{3}{3} = \frac{1}{1} = \boxed{1:1}$$

6. What are the odds against a fair six sided die landing on an even number?

$$\frac{3}{3} = \frac{1}{1} = \boxed{1:1}$$