Probability

6th Grade Mathematics

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$$\text{Probability} = P(\text{event}) = \frac{\text{number of favorable outcomes}}{\text{total number of outcomes}}$$

(Ex. 1) Find each probability for one roll of a number cube.

P(5)

$$P(5) = \frac{\text{number of "5's" on a cube}}{\text{number of numbers on a cube}}$$

$$P(5) = \frac{1}{6}$$

(Ex. 2) Find each probability for one roll of a number cube.

P(1 or 6)

$$P(1 \text{ or } 6) = \frac{\text{number of 1's or 6's}}{\text{total number of numbers}}$$

$$P(1 \text{ or } 6) = \frac{2}{6} = \frac{1}{3}$$

(Ex. 3) Find the probability of choosing a letter at random from BAIRD MIDDLE SCHOOL.

P(D)

$$P(D) = \frac{\text{number of D's}}{\text{total number of letters}}$$

$$P(D) = \frac{3}{17}$$

(Ex. 4) Find the probability of choosing a letter at random from BAIRD MIDDLE SCHOOL.

P(vowel)

$$P(\text{vowel}) = \frac{\text{number of vowels}}{\text{total number of letters}}$$

$$P(\text{vowel}) = \frac{6}{17}$$