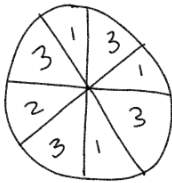Pre-Algebra
Ratios, Proportions, and Probability
Example 3

Probability

For the following spinner, what are the odds that it lands on a: a) 1 b) 3 c) 1 or 2

a) 8 TOTAL SPACES, 3 SPACES ARE ONE'S

$$\therefore \quad \frac{3}{8}$$

b) 8 Spaces, 4 ARE 3's

$$\therefore \quad \frac{4}{8} = \frac{2}{4} = \frac{1}{2}$$

c) 8 spaces, 3 ARE 1's & 1 IS 2

$$\therefore \quad \frac{3+1}{8} = \frac{4}{8} = \frac{1}{2}$$

You are playing a game that involves three dice, what is the probability that you roll all sixes?

TOTAL COMBINATIONS = $6 \cdot 6 \cdot 6 = 6^3 = 216$

PROBABILITY = $\dfrac{1}{216}$