## Algebra 1 0.11 Simple Probability and Odds

Find the probability of simple events Find the odds of simple events

probability

sample space

tree diagram

Fundamental Counting Principle

odds

number cube (dice)

complementary events

ODDS: number of ways to succeed: number of ways to fail

(related to probability, but not the same)

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## Ex. 1 ODDS

A number cube (die) is rolled. Find the odds.

- a. Rolling a 1 S: F 1:5

  Rolling a 5
- b. Rolling an even number 3:3

Ex. 2 2 8

A bowl contains 5 red chips, 7 blue chips, 6 yellow
 chips, and 10 green chips. One chip is randomly drawn.

a. odds of blue 7:21

b. odds of red 5: 23

c. odds of green 10:18

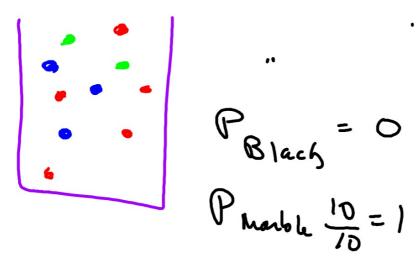
## S: F

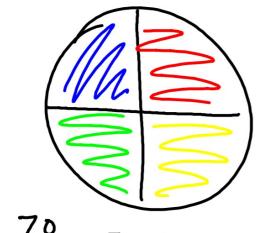
The odds of an event occurring is the ratio that compares the number of ways and event can occur (success) to the number of ways it cannot occur (failure).

## Ex. 5

A number cube is rolled. Find the odds of rolling a number less than 3.

2:4





Pres = 1/4

odds 1:3

P-48 54-62 P-36 16-19 ale rowds a e 10 h