10 - 1 Introduction to Probability

probability: measure of chance from 0 to 1



probability of 0: never happens

probability of 1: always happens

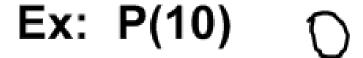


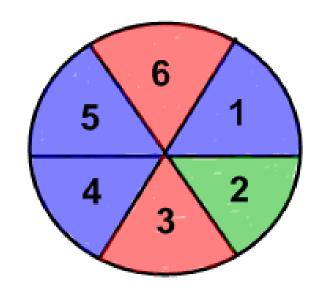
How to find probability:

Find probability using the spinner.



Ex: P(blue)
$$\frac{3}{6} = \frac{1}{2}$$





Ex: P(blue, red, or green)

A bag contains 3 orange, 4 green, 4 blue, and 4 yellow M&Ms. Give each answer as a percent rounded to the nearest tenth.

Ex: P(green or yellow)
$$\frac{8}{15}$$
 $\frac{5333}{5333}$

Ex: P(not orange)
$$\frac{12}{6}$$
 $\frac{80\%}{}$

Odds of an event:



of favorable outcomes

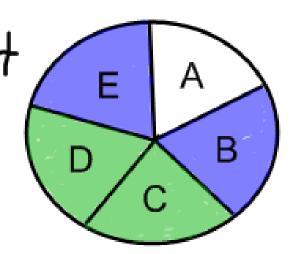
of unfavorable outcomes

Find the <u>odds</u> in favor of each event using the spinner.



Ex: B
$$\frac{1}{4}$$
 1:4 (to 4

Ex: green
$$\frac{2}{3}$$
 2:3



Ex: not A
$$\frac{not A}{A}$$
 $\frac{4}{1}$



Homework:

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