

3.25.15

What is the probability of a day in March having a 2 in its number?

Total days in march = 31

2, 12, 20, 21, 22, 23, 24, 25, 26, 27,

Is this an experimental or theoretical probability? 28, 29

$$\frac{12}{31}$$

38.7%

Probability

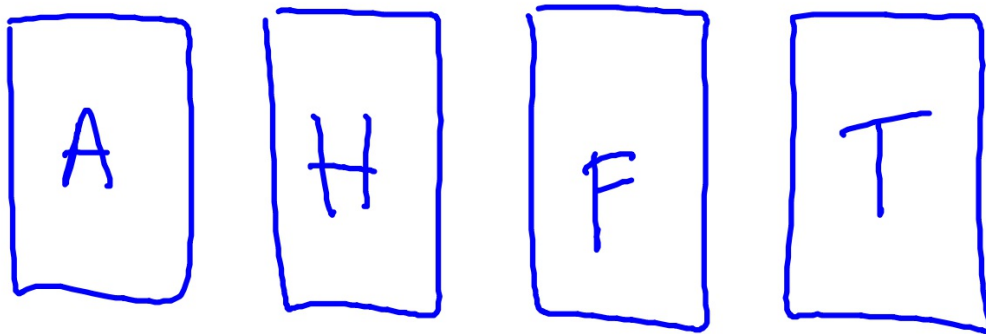
Experimental: $\frac{\text{\# of events}}{\text{total \# of trials}} = P(\text{event})$

Theoretical: $\frac{\text{\# of event A}}{\text{\# of possible outcomes}} = P(A)$

\# of possible outcomes = **sample space**

Section 6.7 Permutations and Combinations

Example 1: I have four different movie posters to put on my wall: Avengers (A), Harry Potter (H), Fault in Our Stars (F), and Titanic (T). How many different ways are there for me to arrange the posters on the wall? **DISCUSS.**



Avengers (A), Harry Potter (H), Fault in Our Stars (F), and Titanic (T)

Answers

11 - listed

16 - 4 ways for each letter

64 -

256 - 4^4

12 - same first letter (3) \times 4

13+ - listed

