Students will be able to assign probabilities to events and apply basic rules of probability in everyday life.

Vocabulary

Experiment - What is being done or studied. ie. Rolling a die

sample space - the results ie.

example: the Sample Space if I role a dice is a list of all the outcomes ie: {1, 2, 3, 4, 5, 6}

Event - what is important ie. rolling an even number

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Three ways to think of probability -

intuition -

an estimate based on past experience, judgment, oropinion.

Relative frequency =
$$f$$
_n

where f is the frequency of an event and n is the sample size.

 $\frac{\textbf{Formula}}{\textbf{Number of favorable outcomes}} (each outcome is equally likely) = \frac{\textbf{Number of favorable outcomes}}{\textbf{Number of possible outcomes}}$

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Probability

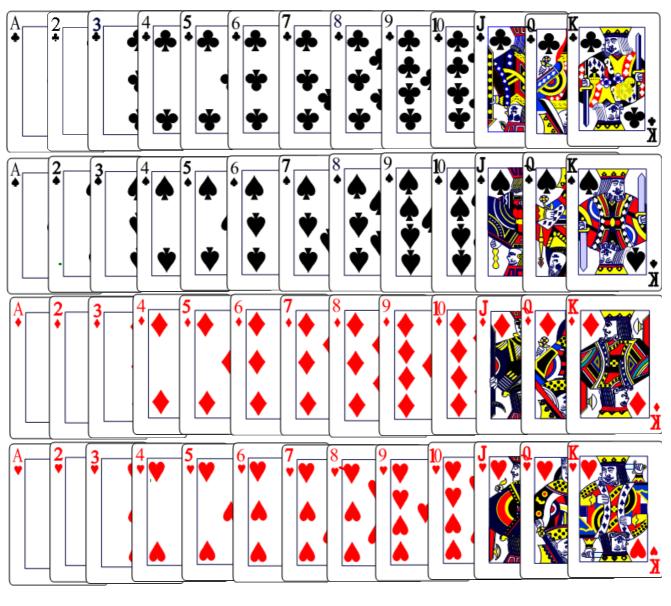
Probability is a numerical measure between 0 and 1 that describes the likelihood that an event will occur.

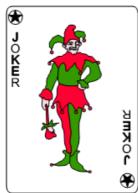
> 0 = can never happen1 = guaranteed to happen

Which of the following numbers cannot be the probability of some event?

- a) 0.71
- b) 4.1
- c) 1/8 d) -0.5

- e) 0.5
- f) 0
- g) 1 h) 150%





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$$P(A) = \frac{\text{favorable outcomes}}{\text{possible outcomes}}$$

If I pick one card at random from the deck of cards, then find the probability.

$$P(\text{odd}) = \frac{16}{52} = \frac{4}{13} = .308 = 30.8 \text{ P(ace of clubs)} = \frac{1}{52} = .019$$

$$P(A) = P(K) = \frac{1}{13} = .077 = 7.7\%$$

$$P(\ge 3) = \frac{32}{52} = \frac{16}{20} = \frac{8}{13} = .615$$

$$P(\text{not 3}) = \frac{48}{52} = \frac{12}{13} = .923 = .923\%$$

$$P(9) = P(\text{Red Ace}) = \frac{1}{13} = .019$$

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Draw a card from the standard deck.

$$P(4) = \frac{4}{52} = \frac{1}{13} =$$

$$P(\text{Not 4}) = \frac{48}{52}$$

The complement of event A is the event that A does not occur. A designates the complement of event A. Futhermore,

$$-1. P(A) + P(A^c) = 1$$

2. P(event A does not occur) =
$$P(A) = 1 - P(A)$$

W.V. Test practice

Findthe sample mean & standard dev.

$$\overline{\chi} = 11.86$$
 $S_{x} = 5.16$

$$S_{x} = 5.16$$



Find Q 8% trimmed mean

$$\frac{600}{12} = \frac{1100}{12} = \frac$$

putinto L, PIL into Ascending order

 \supseteq

Remove smallest 2 & laugest 2 X=9.38

82. Horizontal & vertical lines (10-23)
83. Slope-intercept intro (10-23)
84. Graph from slope-intercept form
(10-23)
85. Slope-intercept equation
from a graph (10-24)
Test Friday 10-27-17