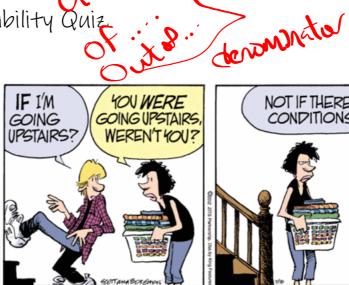
Good morning!

1. "Here"

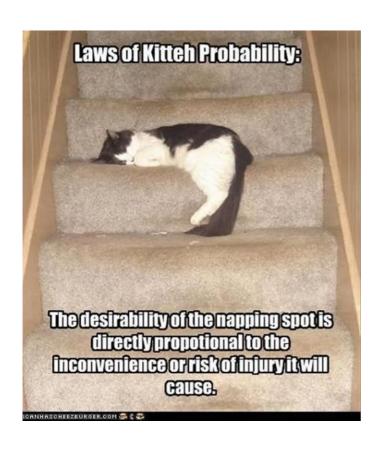
2. Review for Probability Quiz

3. Take Quiz



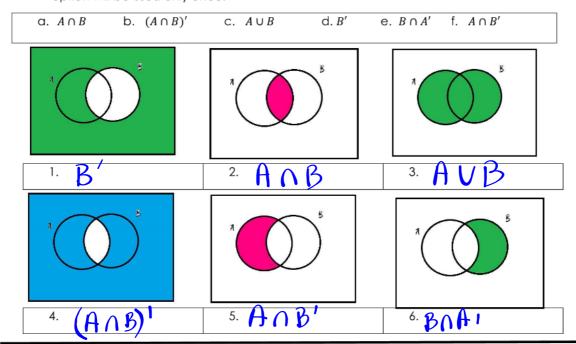






Probability Practice Quiz

Set Notation and Venn Diagrams: Match the set notation to its Venn diagram. Each option will be used only once.



Set Notation: Answer the following questions based on the universal set and subsets $(Universal)\Omega = \{A, B, C, D, E, F, G, 1, 2, 3, 4, 5, 6, 8, 9, 11\}$ given below.

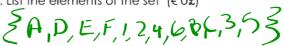


$$\pounds = \{A, B, C, F, 1, 2, 3, 5\}$$

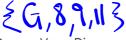
7. List the elements of the set (€ ∩ £)



8. List the elements of the set $(\in \cup \pounds)$

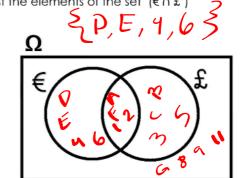


9. List the elements of the set (€ ∪£)'



11. Draw a Venn Diagram to Represent the Sets:

10. List the elements of the set (€ ∩ £')



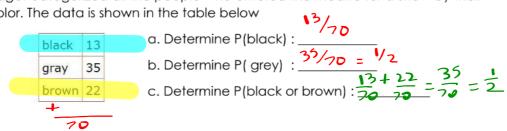


"I wish we hadn't learned probability 'cause I don't think our odds are good."

Probability

Find the experimental probability of the following events. Your answer should be a fully reduced fraction.

12. Bridget categorized all the people who entered the theatre for a show by their hair color. The data is shown in the table below

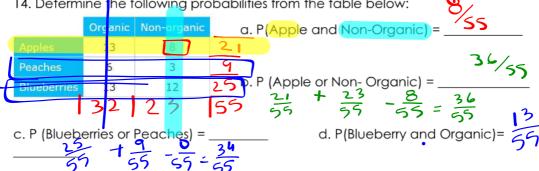


13. An ice cream store recorded its sales for the week in the summer. Their data is shown below.

07
19
44

What is the experimental probability that the next cone sold is mocha? Your answer should be a fully reduced fraction.

14. Determine the following probabilities from the table below:



e. P(Blueberries or Organic) =
$$\frac{13}{55} + \frac{13}{55} = \frac{13}{55} = \frac{44}{55} = \frac{4}{5}$$

P(AUB)=P(A)+1(B)-P(AND)

15. Determine the Following probabilities from the data:

$$P(A) = .8 \quad P(B) = .5 \quad P(A \cap B) = .4 \quad Determine: P(A \cup B) = ... + ..$$

16.
$$P(C)=.6$$
 $P(B)=.5$ $P(C \cup B)=.8$ Determine: $P(C \cap B)=\frac{1}{2}$ $P(C \cap B)=\frac{1}{2}$

$$\bigcap P(A \cap B) = P(A) + P(B) - P(A \cup B)$$

OR: Add AND: Both, interection

Conditional: change denominator

if...

given...

of...

erom...



Determine if the following are mutually exclusive or overlapping, then find the probability of each.

17. In a deck of cards find the probability of drawing a Jack or a heart.

Mutually Exclusive o Overlapping?

18. In a deck of cards, find the probability of drawing a Queen or Even Numbered card.

Mutually Exclusive or Overlapping?

P(Queen or Even Numbered Card) = $\frac{4}{52} + \frac{20}{52} = \frac{2}{52}$

$$\frac{4}{5^2} + \frac{20}{5^2} = \frac{24}{5^2}$$

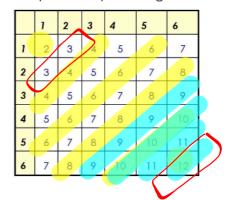
19. You're rolling two dice and looking at their sum. What is the probability of rolling

an even sum or a sum greater than 8?

Mutually Exclusive or Overlapping __

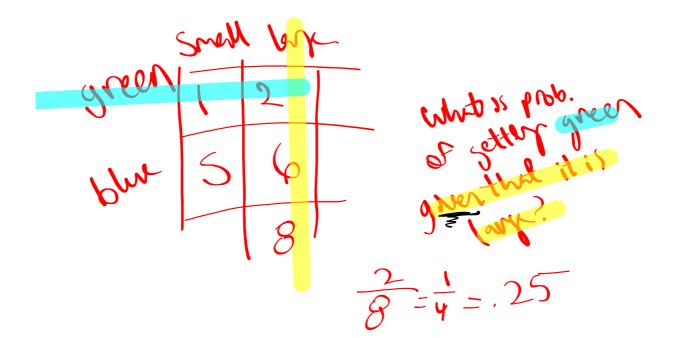
P(Even sum or Sum greater than 8)=_

$$\frac{18}{36} + \frac{10}{36} - \frac{4}{36} = \frac{24}{36} = \frac{2}{36}$$



- 20. Answer the questions about probabilities from the sum chart.
- a. P (Even sum and sum greater than 8)= $\frac{2/3}{3}$
- b. P(odd sum or sum less than 6) = _____

c. P(sum of 12 gr sum of 3) =
$$\frac{1}{34} + \frac{2}{34} = \frac{3}{34} = \frac{1}{12}$$



Log in your answers, please:)

https://tinyurl.com/4yc95xw9