





4. How many different arrangements can be made from the word valentine? val order matters - Plant lav n! >total Valant r: +2!... duplicates 91 = 9.8.7.6.5.4.3.2.1







8. If $P(A) = \frac{3}{7}$ and $P(A \text{ and } B) = \frac{5}{14}$ find P(B|A)8. 'Bgiven A" D(A) 3-5-7

10. Find the number of distric committee's that can be formed if 8 people are selected from a group of 12. Leave in factorial form.





12. A spinner that is labeled equally 1 - 8 and a coin are each spun and tossed respectively. What is the probability that the spin is a 4 and the toss is a tail?

multiply independent

14. Find the probability that the spinner that is equally divided into 1 - 8 will land on 4 or less than 6?

16. If $P(A^{c}) = \frac{3}{13}$ find P(A)given = want 13 13 3

19. You flipped a coin 8 times and they were all heads. What is the probability that the next flip will be a head?

20. How many 3 letters followed by a 3 number passwords can there be if only even numbers can be used. Remember that 0 is neither odd or even.

^{22. If}
$$P(A^{c}) = \frac{4}{9}$$
, find $P(A)$.
 $\left| -\frac{4}{9} = \frac{5}{9} \right|$