Quiz 2 Review - on Notebook Paper

Are You Ready For Your Last Quiz In Honors Math II??

Some things to Know, Memorize, AND Understand how to use are...

What are the formulas?

$$_{n}P_{r} = --- _{n}C_{r} = ----$$

Fill in the notation \checkmark

Intersection of two sets (A ____ B) :

Fill in the vocab. ↑

Union of two sets (A ____ B) :

Complement of a set:

P(not A) = P(____) = ____

Factorial: For any integer n > 0, n! = n(n-1)(n-2)(n-3)...(3)(2)(1)If n=0, $0! = _______$ $Ex: 4! = _____$

If A and B are **Independent** events, then P(A and B) = P(A _ B) = _____

If A and B are **Dependent** events, then P(A, then B) = _____

If A and B are **Mutually Inclusive or Exclusive** Events P(A or B) = P(A _ B) = _____

If A and B are **Conditional** Events

P(A given B) = P(A ___ B) = ____

Quiz 2 Review KEY

Are You Ready For Your Last Quiz In Honors Math 2??

Some things to Know, Memorize, AND Understand how to use are...

$$_{n}P_{r} = \frac{n!}{(n-r)!} \quad _{n}C_{r} = \frac{n!}{(n-r)! \bullet r!}$$

Intersection of two sets $(A \cap B)$: All the elements that appear in both sets (the "overlap" of the two sets)

Union of two sets (A ∪ B) : Everything in either set (the items in A or B alone or both)

Compliment of a set: all elements in the universal set that are **NOT** in the initial set $P(not A) = P(A^{C}) = 1 - P(A)$ Factorial: For any integer n > 0, $n! = \underline{n(n-1)(n-2)(n-3)...(3)(2)(1)}$ If $n=0, 0! = \underline{1}$ Ex: $4! = 4 \cdot 3 \cdot 2 \cdot 1$

If A and B are **Independent** events, then $P(A \text{ and } B) = P(A \cap B) = P(A) \cdot P(B)$ If A and B are **Dependent** events, then $P(A, \text{ then } B) = P(A) \cdot P(B \text{ after } A)$ **assume success on 1st draw**

If A and B are Mutually Inclusive or Exclusive Events $P(A \text{ or } B) = P(A \cup B) = P(A) + P(B) - P(A \cap B)$

If A and B are Conditional Events

P(A given B) = $P(A|B) = \frac{P(A \text{ and } B)}{P(B)}$