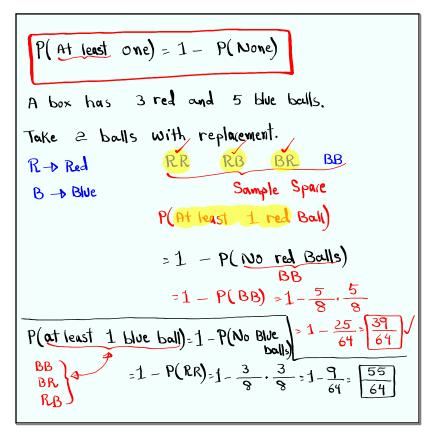


Feb 19-8:47 AM



Jan 21-4:31 PM

Jan 21-4:39 PM

From a Standard Jeck of playing Cards,

Araw 2 Cards, No replacement 4Aces,

P(At least 1 Ace)=1 - P(No Ace)

=1 -
$$\frac{48}{52} \cdot \frac{47}{51} = \frac{33}{221}$$

P(At least 1 Sace Card)=1 - P(No Sace Card)

12 Sace

=1 - $\frac{40}{52} \cdot \frac{39}{51} = \frac{7}{17}$

Suppose we araw 3 Cards, No replacement

P(At least 1 Red)=1 - P(No Red)

26 Red

=1 - $\frac{26}{52} \cdot \frac{25}{51} \cdot \frac{24}{50} = \frac{15}{17}$

Jan 21-4:53 PM

```
Is we have n different items and we like to choose r of them.

Order does not matter, No replacement

# of Selections is given by n cr

n choose r

n choose r

n!= n(n-1)(n-2)(n-3)...3.2.1

Factorial

5! = 5.4.3.2.1 = 120

10! = 10.9.8.7.6.5.4.3.2.1=

10 Math > PRBL 3628800

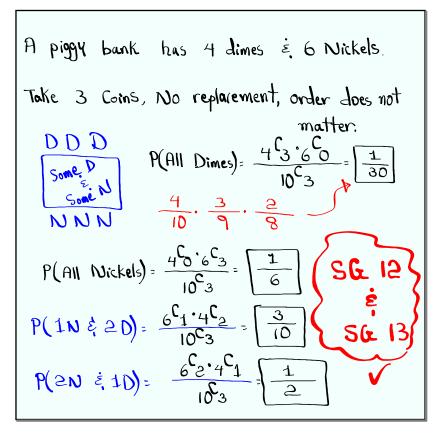
4:1 Enter

6 2: 6! 2!.(6-2)! 2!.4! 2.1.4.3.2.1

6 MATH > PRBL 367.6.5.4.3.2.1
```

Jan 21-5:00 PM

Jan 21-5:08 PM



Jan 21-5:21 PM