

Name: _____

Date: _____

Quiz name: Discrete Math Feb 24 (basic counting)

1. Suppose Gideon, Nathalie, and Vincent are asked to rank Trump, Rubio, and Cruz in order of preference. (For instance, it's possible that G and N will choose T,R,C and V will choose C,R,T.) How many ways can the choices go?

- (A) $3(6!)$
 - (B) $(3!)^3$
 - (C) $(3)!$
 - (D) $3(6 \text{ choose } 3)$
 - (E) $3(3!)$
-

2. Suppose that some power of $(r+s)$ has an r^6s^2 term. What is the coefficient of that term?

- (A) $(8 \text{ choose } 2)$
- (B) $(6 \text{ choose } 2)$
- (C) 6
- (D) 8
- (E) $6!/2!$