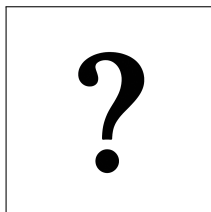


$$m = 10$$

$$n = 2$$

$$\binom{m}{n} = \frac{m!}{n!(m-n)!} = \frac{10!}{2!(10-2)!} = \frac{10 \times 9}{2} = 45$$



$$m = 42$$

$$n = 3$$

$$\binom{m}{n} = ?$$

5

Discrete Distribution
Combinations

B



$$m = 42$$

$$n = 3$$

$$\binom{m}{n} = \frac{m!}{n!(m-n)!} = \frac{42!}{3!x(42-3)!} = \frac{42x41x40}{3x2x1} = 11,480$$