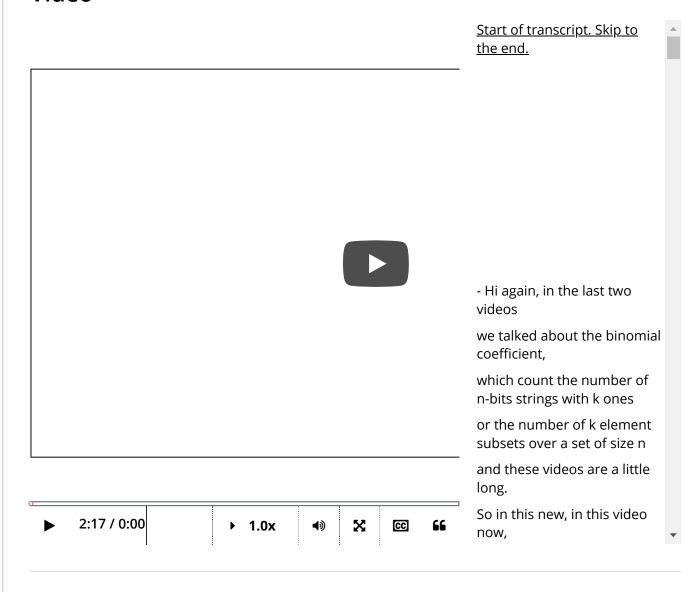


Course > Topic 4... > 4.5 Pro... > Proper...

# **Properties of Binomial Coefficient** Video



### 4.5 Properties of Binomial Coefficient

#### **POLL**

For a positive integer n, n choose (n-1) equals to

#### **RESULTS**

80% n

10% 1

7%

n+1 3%

Submit

Results gathered from 324 respondents.

#### **FEEDBACK**

The answer is n.

1

0/1 point (graded)

A deck  $n \geq 5$  cards has as many 5-card hands as 2-card hands. What is n?

X Answer: 7 21

21

## **Explanation**

From the information given, we have  ${n \choose 5} = {n \choose 2}$  which clearly holds for n=7 since  $\binom{n}{5} = \binom{n}{n-5}.$ 

Submit

You have used 4 of 4 attempts

**1** Answers are displayed within the problem

2

0/1 point (graded) If  $\binom{n+2}{5}=12\binom{n}{3}$  , find n.

X Answer: 14 12

12

#### **Explanation**

As 
$$\binom{n+2}{5}=rac{(n+2)(n+1)}{5\cdot 4}\binom{n}{3}$$
,  $rac{(n+2)(n+1)}{5\cdot 4}=12$ . Hence  $n=14$ .

Submit

You have used 3 of 3 attempts

**1** Answers are displayed within the problem

#### Discussion **Hide Discussion**

**Topic:** Topic 4 / Properties of Binomial Coefficient

Add a Post

Show all posts ▼	by recent activity ▼
General Comments Questions and comments regarding this section.	3
■ Staff  Problem 1 Questions and comments regarding problem 1. ■ Staff	5
Problem 2 Questions and comments regarding problem 2.  Staff	5 new_ 8

© All Rights Reserved