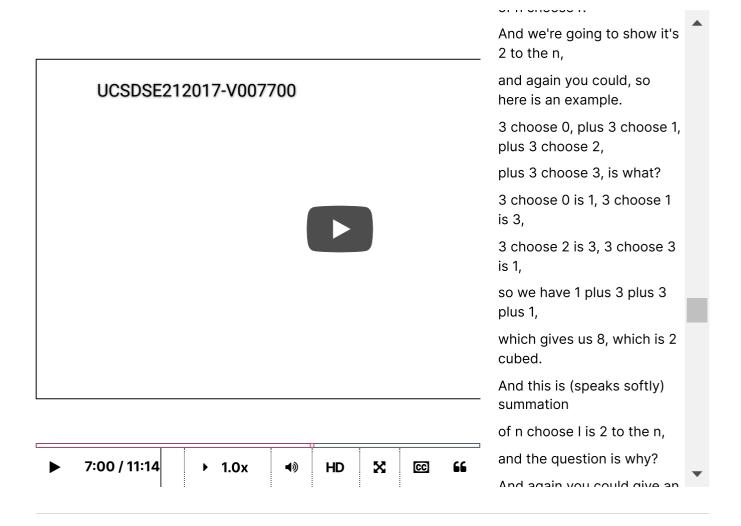
Video



$\underline{\text{4.5_Properties_of_Binomial_Coefficient}}$

POLL

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

RESULTS

1	8	8%
n-1	1:	5%
n	6	9%

Submit

Results gathered from 13 respondents.

FEEDBACK

The answer is n.

1 (Graded)

1/1 point (graded)

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



✓ Answer: 7

7

Explanation

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

Submit

You have used 1 of 4 attempts

1 Answers are displayed within the problem

2 (Graded)

1/1 point (graded)

If
$$\binom{n+2}{5}=12\binom{n}{3}$$
, find n .

14

✓ Answer: 14

14

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 1 of 3 attempts

1 Answers are displayed within the problem

3

0 points possible (ungraded)

Which of the following is the expansion of $(x+y)^3$?

- $\bigcirc x^3 + y^3$
- $\bigcirc x^3 + x^2y + xy^2 + y^3$
- $\bigcirc x^3 + 6xy + y^3$



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You have used 1 of 2 attempts

1 Answers are displayed within the problem

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