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[Course](#) > [2 Adva...](#) > [Lesson...](#) > 2.1 Pra...

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2.1 Practice: Counting Collections

2.1 Practice Problem 1

0 points possible (ungraded)

Justify the general formula:

$$\binom{n}{k} = \binom{n-1}{k} + \binom{n-1}{k-1}$$

You will be granted credit for your answer regardless of whether or not it is correct.

Submit

2.1 Office Hours for Practice Problem 1



Practice 1

2.1 Counting Collections

(Caption will be displayed when you start playing the video.)



0:00 / 0:00



1.0x



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2.1 Practice Problem 2

0 points possible (ungraded)

An exam has 15 questions: eight true/false questions and seven multiple choice questions. You are asked to answer five of them, but your professor requires you to answer at least one true/false question and at least one multiple choice question. How many ways can you choose the questions you plan to answer? *Choose the best answer.*

☐ $\binom{8}{1} \times \binom{7}{1} \times \binom{13}{3}$

☐ $8 \times 7 \times 13 \times 12 \times 11$

☐ $\binom{15}{5} - 8 \times 7 \times 6 - 7 \times 6 \times 5$

☒ $\binom{15}{5} - \binom{8}{5} - \binom{7}{5}$

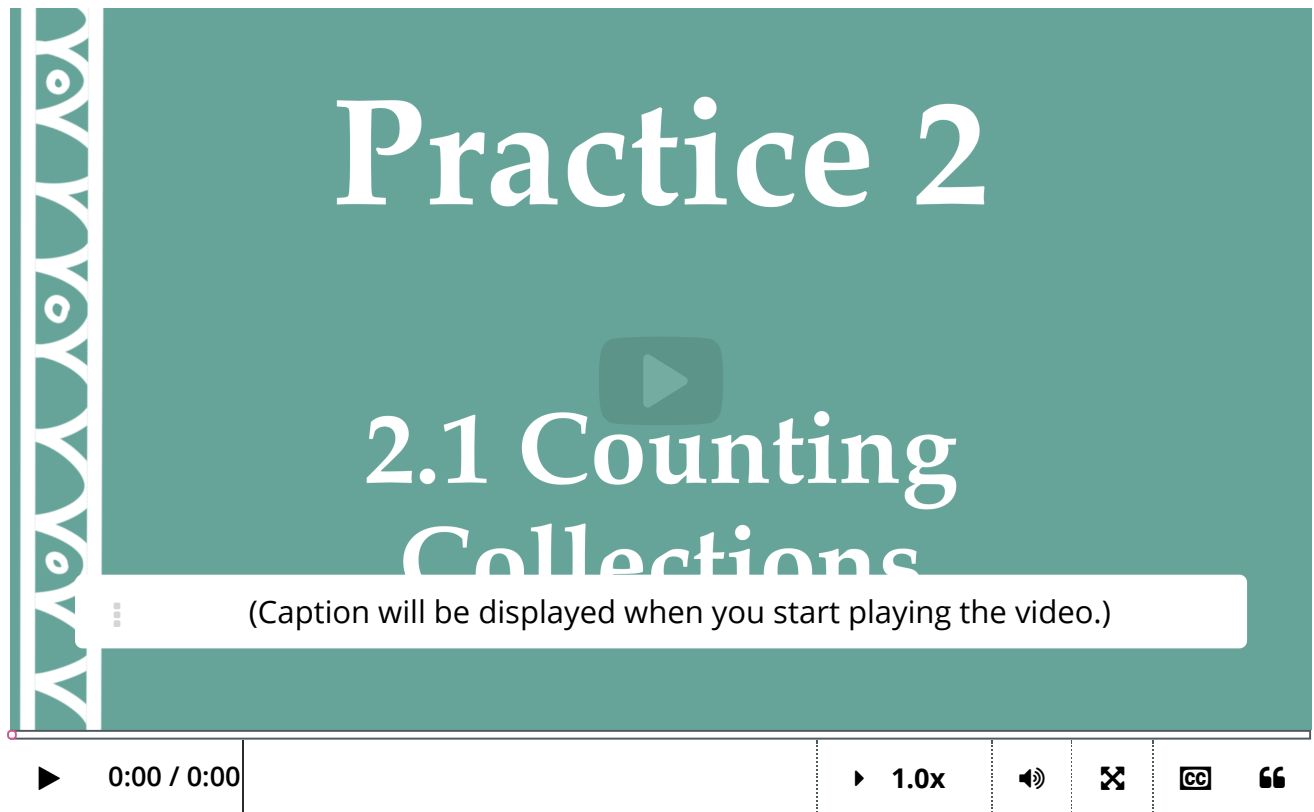




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✓ Correct

2.1 Office Hours for Practice 2



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