2.1 Practice: Counting Collections

2.1 Practice Problem 1

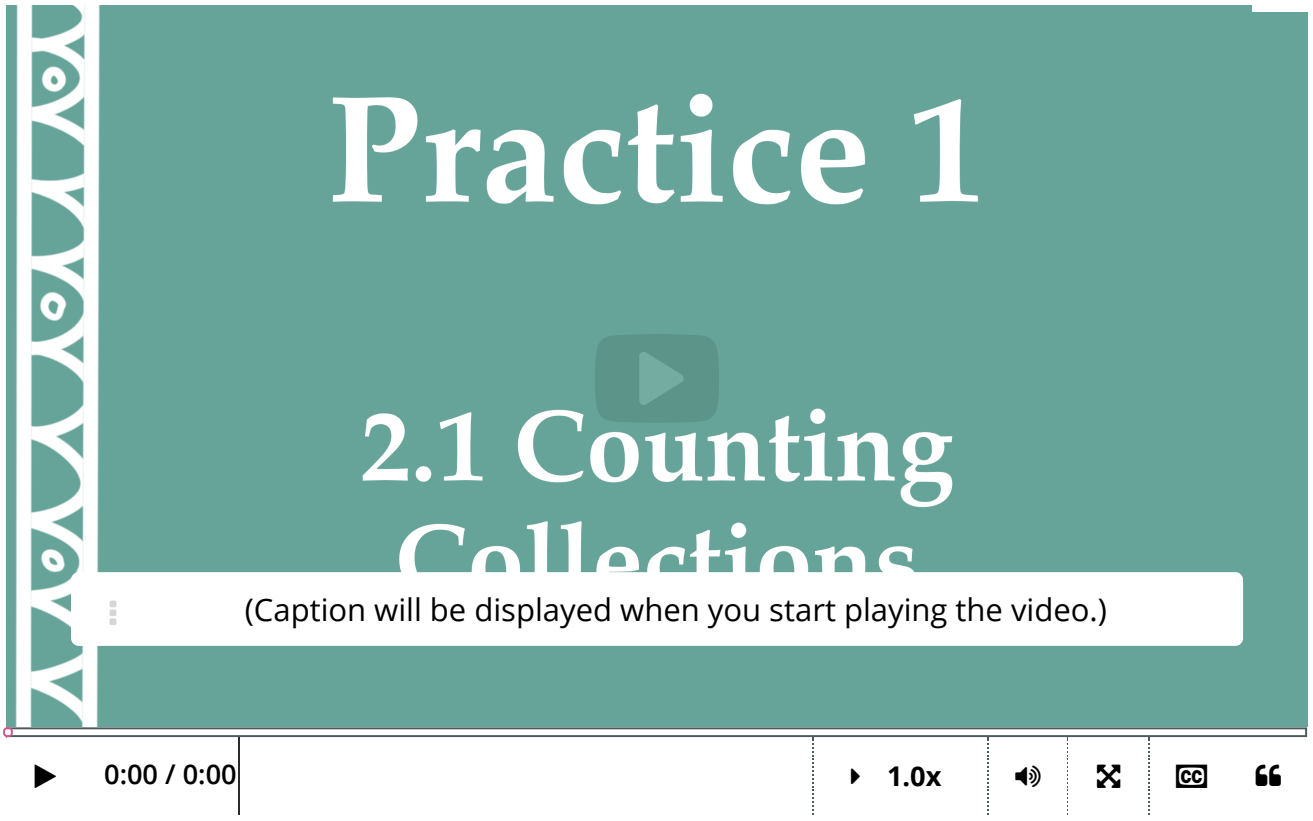
0 points possible (ungraded)
Justify the general forumula:

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

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



Video
Download video file

Transcripts
Download SubRip (.srt) file
Download Text (.txt) file

2.1 Practice Problem 2

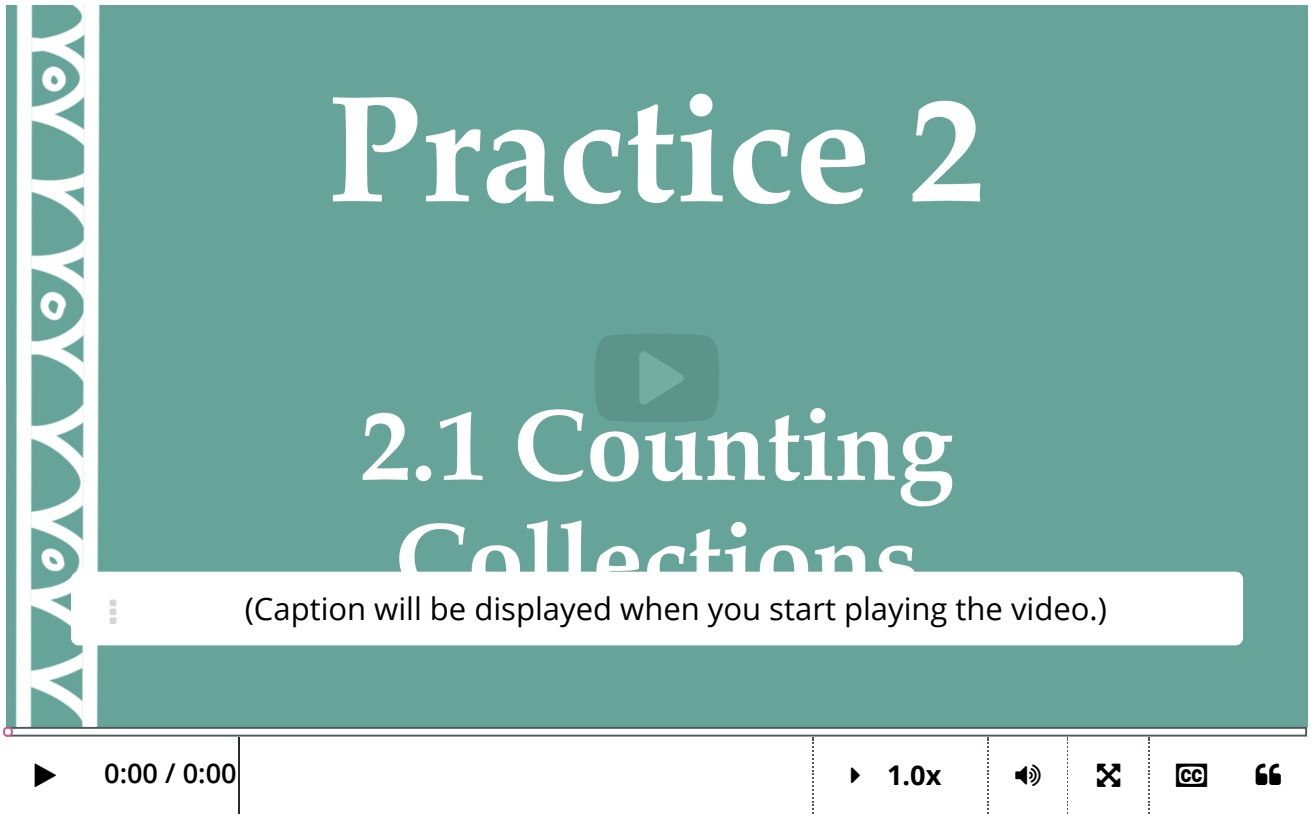
0 points possible (ungraded)
An exam has 15 questions: eight true/false questions and seven multiple choice questions. You are asked to answer five of them, but your professor requires you to answer at least one true/false question and at least one multiple choice question. How many ways can you choose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

- $\binom{8}{1} \times \binom{7}{1} \times \binom{13}{3}$
- $8 \times 7 \times 13 \times 12 \times 11$
- $\binom{15}{5} - 8 \times 7 \times 6 - 7 \times 6 \times 5$
- $\binom{15}{5} - \binom{8}{5} - \binom{7}{5}$

Submit

✔ Correct

2.1 Office Hours for Practice 2



Video
Download video file

Transcripts
Download SubRip (.srt) file
Download Text (.txt) file

Learn About Verified Certificates