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2.5 Practice: Collections with Repetition

2.5 Practice Problem 1

0 points possible (ungraded)

You roll seven identical six-sided dice simultaneously. How many different outcomes are possible? (For instance, one possible outcome is three 2s, one 6, one 5, and two 1s.) *Choose the best answer.*

- 6^7
- $\binom{12}{5}$
- $\frac{7!}{2!\times 6!\times 5!\times 1!}$
- $\frac{7!}{3!\times 1!\times 1!\times 2!}$

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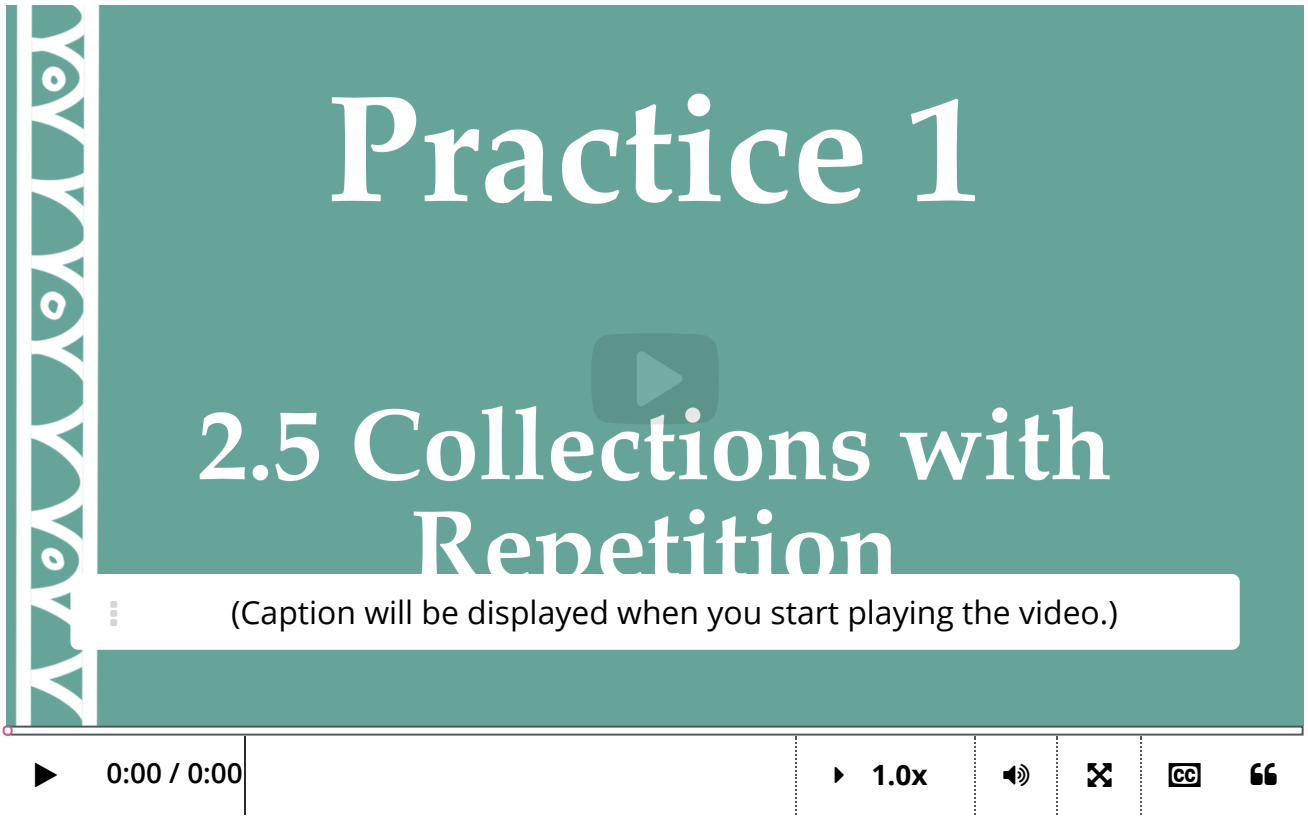
2.5 Office Hours for Practice Problem 1



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2.5 Practice Problem 2

0 points possible (ungraded)

By a rack in the game of Scrabble, we'll mean a collection of seven letters drawn from an alphabet comprised of the usual 26 English letters. The order doesn't matter, and you can have more than one of a given letter. (For the purposes of this problem, we'll say there are seven of each letter available and no blank tiles.) How many different racks are possible? *Choose the best answer.*

- $\binom{7}{26}$
- $\binom{26}{7}$

- ◉ $\binom{32}{7}$
- ○ $\binom{33}{7}$

✔

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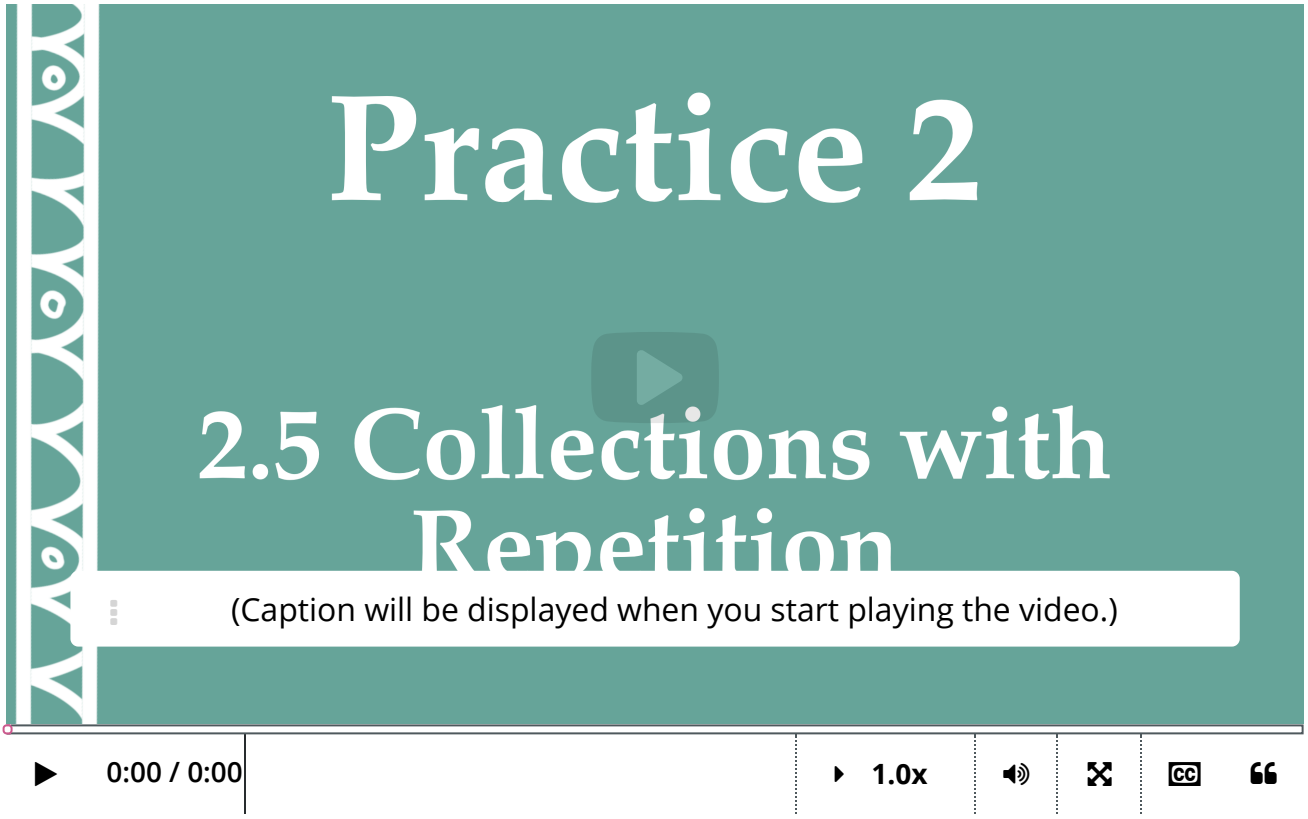
2.5 Office Hours for Practice Problem 2



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