



# Applaa UCAT Practice Mock 109

Mock Practice Exam Booklet

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# Instructions & Study Method

Welcome to your Applaa offline practice booklet. Please follow these guidelines to maximize your learning outcome:

- 1. Distraction-Free Practice:** Solve the multiple-choice questions in Section 1 under timed conditions. Do not look for shortcuts or answers until you are completely done.
- 2. Check & Submit Online:** We have intentionally excluded the answer key from this printout. To get your score, see worked solutions, and track your progress metrics, open: <https://applaa.com/practice/check?exam=ucat&paper;=109> on any browser. Bubble in your answers in our digital check sheet.
- 3. Learn with Appy Buddy (AI Socratic Tutor):** Applaa is a 100% ad-free educational space. Our online AI Tutor guides you step-by-step through questions you get wrong, showing you how to solve them rather than just giving you the answer.

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# Section 1: Practice Questions

## Question 1 — [Verbal Reasoning / true\_false\_cant\_tell]

Read the passage below and decide if the following statement is True, False, or Can't Tell based on the text.

Passage: During the mid-nineteenth and early twentieth centuries, global trade networks reshaped national economies. In 1945, the annual production of copper in Czechia stood at approximately 54 million metric tons. Following key infrastructure improvements and trade agreements with Thailand, production in Czechia surged to 88 million metric tons by 1974. During this same period, Canada emerged as the primary global importer of copper, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: Canada signed an official trade treaty with Czechia to secure its import of copper.

- A: True
- B: False
- C: Can't Tell

## Question 2 — [Verbal Reasoning / true\_false\_cant\_tell]

Read the passage below and decide if the following statement is True, False, or Can't Tell based on the text.

Passage: In 2022, research conducted by researchers led by Prof. Elena Vance at the Renewable Energy Research investigated the properties of Aerogel. Initial experimental setups achieved an energy conversion efficiency of 24 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Aerogel to 36 percent in follow-up trials. Despite these promising results, commercial viability is currently limited by the high cost of raw precursor materials and safety regulations governing nanotechnology manufacturing. Statement: The research team led by Prof. Elena Vance managed to increase the energy conversion efficiency of Aerogel.

- A: True
- B: False
- C: Can't Tell

## Question 3 — [Verbal Reasoning / true\_false\_cant\_tell]

Read the passage below and decide if the following statement is True, False, or Can't Tell based on the text.

Passage: During the mid-nineteenth and early twentieth centuries, global trade networks reshaped national economies. In 1943, the annual production of copper in Ukraine stood at approximately 79 million metric tons. Following key infrastructure improvements and trade agreements with Thailand, production in Ukraine surged to 128 million metric tons by 1963. During this same period, Mexico emerged as the primary global importer of copper, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: The annual production of copper in Ukraine was higher in 1963 than it was in 1943.

- A: True
- B: False
- C: Can't Tell

**Question 4 — [Verbal Reasoning / true\_false\_cant\_tell]**

Read the passage below and decide if the following statement is True, False, or Can't Tell based on the text.

Passage: In 2015, research conducted by researchers led by Dr. Chien-Shiung Wu at the Materials Science Lab investigated the properties of Aerogel. Initial experimental setups achieved an energy conversion efficiency of 26 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Aerogel to 41 percent in follow-up trials. Despite these promising results, commercial viability is currently limited by the high cost of raw precursor materials and safety regulations governing nanotechnology manufacturing. Statement: The research at the Materials Science Lab was funded by a government scientific grant.

- A: True
- B: False
- C: Can't Tell

**Question 5 — [Decision Making / venn\_deduction]**

Based on the Venn diagram, how many members belong to Dog Owners and Cat Owners but NOT Bird Owners?

- A: 14
- B: 8
- C: 16
- D: 6

**Question 6 — [Decision Making / venn\_deduction]**

Based on the Venn diagram, how many members belong to AT LEAST two clubs/groups?

- A: 44
- B: 36
- C: 42
- D: 34

**Question 7 — [Decision Making / error\_checking]**

How many of the four pictures in the left-hand column are exactly the same as the corresponding picture in the right-hand column?

- A: 0
- B: 1
- C: 2
- D: 3
- E: 4

**Question 8 — [Decision Making / venn\_deduction]**

Based on the Venn diagram, how many members belong to EXACTLY one club/group?

- A: 69
- B: 77
- C: 74
- D: 79

**Question 9 — [Quantitative Reasoning / table\_interpretation]**

What are the average annual sales of Product Beta over the three-year period (in thousands)?

- A: \$105.8k
- B: \$101.5k
- C: \$114.0k
- D: \$109.0k
- E: \$119.4k

**Question 10 — [Quantitative Reasoning / chart\_interpretation]**

What is the simplified ratio of the revenue of Dept C to that of Dept A?

- A: 2:1
- B: 3:2
- C: 4:3
- D: 3:4
- E: 1:4

**Question 11 — [Quantitative Reasoning / table\_interpretation]**

What is the percentage increase in sales of Product Gamma from 2023 to 2025?

- A: 5.8%
- B: 10.8%
- C: 19.9%
- D: -1.7%
- E: 2.6%

**Question 12 — [Quantitative Reasoning / chart\_interpretation]**

What is the combined revenue of Dept C and Dept A (in thousands)?

- A: \$200k
- B: \$220k
- C: \$210k
- D: \$180k
- E: \$230k

**Question 13 — [Abstract Reasoning / odd\_one\_out]**

Which of the following boxes does not belong with the others?

- A: Box A
- B: Box B
- C: Box C
- D: Box D
- E: Box E

**Question 14 — [Abstract Reasoning / set\_ab]**

Does the Test Shape belong to Set A, Set B, or Neither?

- A: Set A
- B: Set B
- C: Neither

**Question 15 — [Abstract Reasoning / odd\_one\_out]**

Which of the following boxes does not belong with the others?

- A: Box A
- B: Box B
- C: Box C
- D: Box D
- E: Box E

**Question 16 — [Abstract Reasoning / set\_ab]**

Does the Test Shape belong to Set A, Set B, or Neither?

- A: Set A
- B: Set B
- C: Neither

**Question 17 — [Situational Judgement / appropriateness]**

Scenario: A medical student, Ella, is assigned to work with David on a neurology research project at Parkview Hospital. David has not attended meetings or responded to group emails. The project is due in 38 days. How appropriate is the following action? Action: The student completes all of David's assigned research tasks herself without telling the supervisor.

- A: A very appropriate thing to do
- B: Appropriate, but not ideal
- C: Inappropriate, but not awful
- D: A very inappropriate thing to do

**Question 18 — [Situational Judgement / appropriateness]**

Scenario: A medical student, Jessica, at Community Health finds a public social media page run by a peer that posts mocking descriptions of patients from their general surgery placement, which has 10 active beds. How appropriate is the following action? Action: The student likes the posts and shares them in a private group chat with other students.

- A: A very appropriate thing to do
- B: Appropriate, but not ideal
- C: Inappropriate, but not awful
- D: A very inappropriate thing to do

**Question 19 — [Situational Judgement / appropriateness]**

Scenario: A medical student, Ruby, is assigned to work with Charles on a pediatrics research project at Mount Sinai. Charles has not attended meetings or responded to group emails. The project is due in 32 days. How appropriate is the following action? Action: The student completes all of Charles's assigned research tasks herself without telling the supervisor.

- A: A very appropriate thing to do
- B: Appropriate, but not ideal
- C: Inappropriate, but not awful
- D: A very inappropriate thing to do

**Question 20 — [Situational Judgement / importance]**

Scenario: An elderly 61-year-old patient at Westside Clinic on Friday night tells a medical student, Ella, that she lives alone and has no heating. The registrar, who has worked there for 12 years, tells the student to ignore this and focus only on the medical form. How important is the following factor to consider? Factor: The patient's domestic living conditions and safety at home.

- A: Very Important
- B: Important
- C: Of Minor Importance
- D: Not Important at All

# Submit Answers & Check worked Solutions

## ■ Section Complete!

You have completed this practice exam paper. To check your answers and view step-by-step worked explanations:

■ Go to: <https://applaa.com/practice/check?exam=ucat&paper;=109>

Simply bubble in your choices (e.g. A, B, C, D) and get instantly scored! You can then review the explanations or chat with Appy Buddy (AI Socratic tutor) to understand complex concepts.