



# Applaa UCAT Practice Mock 7

Mock Practice Exam Booklet

## Applaa: Socratic Practice Engine

Submit and grade your answers online for instant worked solutions:

<https://applaa.com/practice/check?exam=ucat&paper=7>

# 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=7> 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.

## ■ SUPERCHARGE YOUR STUDIES WITH APPLAA DESKTOP APP

Tired of printing PDFs and manual grading? Download the **Applaa Desktop Application**. It includes interactive exam mocks, real-time pacing stats, auto-grading, and personalized Socratic AI support. Get a **14-day free trial** of our premium preparation package to track your progress rate.

**Download:** <https://applaa.com/download>

# 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: In 2025, research conducted by researchers led by Dr. Aris Thorne at the Quantum Computing Lab investigated the properties of Carbon-Nanotubes. Initial experimental setups achieved an energy conversion efficiency of 16 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Carbon-Nanotubes 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: Carbon-Nanotubes became commercially viable immediately following the trials led by Dr. Aris Thorne.

- 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: Public health campaigns in Hungary during the late twentieth century made significant progress in combating infectious diseases. In 1997, the incidence rate of Dengue Fever was recorded at 273 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 189 cases per 100,000 people over the next decade. While this decline was celebrated as a major victory, health officials warned that rising temperatures could allow vector populations to rebound in rural regions. Statement: The incidence rate of Dengue Fever per 100,000 people in Hungary decreased after the public health campaign.

- 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: Public health campaigns in Switzerland during the late twentieth century made significant progress in combating infectious diseases. In 1988, the incidence rate of Tuberculosis was recorded at 170 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 116 cases per 100,000 people over the next decade. While this decline was celebrated as a major victory, health officials warned that rising temperatures could allow vector populations to rebound in rural regions. Statement: The incidence rate of Tuberculosis per 100,000 people in Switzerland decreased after the public health campaign.

- 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: During the mid-nineteenth and early twentieth centuries, global trade networks reshaped national economies. In 1865, the annual production of nickel in Saudi Arabia stood at approximately 26 million metric tons. Following key infrastructure improvements and trade agreements with Finland, production in Saudi Arabia surged to 81 million metric tons by 1882. During this same period, Vietnam emerged as the primary global importer of nickel, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: Finland produced more nickel than Saudi Arabia did between 1865 and 1882.

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

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

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

- A: 47
- B: 57
- C: 52
- D: 60

**Question 6 — [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 7 — [Decision Making / venn\_deduction]**

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

- A: 81
- B: 78
- C: 76
- D: 66

**Question 8 — [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 9 — [Quantitative Reasoning / chart\_interpretation]**

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

- A: 1:4
- B: 1:2
- C: 5:2
- D: 4:1
- E: 3:2

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

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

- A: \$230.0k
- B: \$221.8k
- C: \$239.1k
- D: \$225.0k
- E: \$217.5k

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

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

- A: 1:2
- B: 1:1
- C: 11:14
- D: 3:1
- E: 4:3

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

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

- A: 9.7%
- B: 22.2%
- C: 37.2%
- D: 31.3%
- E: 14.0%

**Question 13 — [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 14 — [Abstract Reasoning / sequence]**

Which of the options completes the sequence shown in the diagram?

**A:** `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="35" y1="40.0" x2="35" y2="10" stroke="#000000" stroke-width="2" /><polygon points="35,60 45.0,40.0 25.0,40.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

**B:** `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="30.0" y1="35" x2="60" y2="35" stroke="#000000" stroke-width="2" /><polygon points="10,35 30.0,25.0 30.0,45.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

**C:** `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="35" y1="40.0" x2="35" y2="10" stroke="#000000" stroke-width="2" /><polygon points="35,60 45.0,40.0 25.0,40.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

**D:** `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="35" y1="30.0" x2="35" y2="60" stroke="#000000" stroke-width="2" /><polygon points="35,10 45.0,30.0 25.0,30.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

**E:** `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="35" y1="30.0" x2="35" y2="60" stroke="#000000" stroke-width="2" /><polygon points="35,10 45.0,30.0 25.0,30.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

**Question 15 — [Abstract Reasoning / sequence]**

Which of the options completes the sequence shown in the diagram?

**A:** <svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <polygon points="17.5,66.84 27.320439999999998,49.83 7.67956,49.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="51.5,64.84 61.32044,47.83 41.67956,47.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,3.16 30.320439999999998,20.17 10.67956,20.17" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

**B:** <svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <polygon points="18.5,38.16 28.320439999999998,55.17 8.67956,55.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="54.5,44.16 64.32044,61.17 44.67956,61.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,8.16 30.320439999999998,25.17 10.67956,25.17" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

**C:** <svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <polygon points="18.5,3.16 28.320439999999998,20.17 8.67956,20.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="53.5,26.84 63.32044,9.83 43.67956,9.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="53.5,39.16 63.32044,56.17 43.67956,56.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="17.5,63.84 27.320439999999998,46.83 7.67956,46.83" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

**D:** <svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <polygon points="16.5,9.16 26.320439999999998,26.17 6.67956,26.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="50.5,31.84 60.32044,14.83 40.67956,14.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,40.16 62.32044,57.17 42.67956,57.17" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

**E:** <svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <polygon points="14.5,64.84 24.320439999999998,47.83 4.67956,47.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="53.5,9.16 63.32044,26.17 43.67956,26.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,61.84 62.32044,44.83 42.67956,44.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="14.5,8.16 24.320439999999998,25.17 4.67956,25.17" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

**Question 16 — [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 17 — [Situational Judgement / importance]**

Scenario: An elderly 57-year-old patient at State Medical Center on Tuesday morning tells a medical student, Sarah, that she lives alone and has no heating. The registrar, who has worked there for 6 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

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

Scenario: A medical student, Emma, is assigned to work with Gary on a dermatology research project at St. Mary's Hospital. Gary has not attended meetings or responded to group emails. The project is due in 34 days. How appropriate is the following action? Action: The student completes all of Gary'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 19 — [Situational Judgement / importance]**

Scenario: A junior doctor, Ella, at City General Infirmary is deciding whether to escalate a deteriorating 76-year-old patient in the emergency ward to the registrar on call during the Wednesday day-shift. How important is the following factor to consider? Factor: Whether the registrar will be annoyed or irritated by the call.

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

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

Scenario: A medical student, Sophia, is assigned to work with Steven on a hematology research project at General Infirmary. Steven has not attended meetings or responded to group emails. The project is due in 14 days. How appropriate is the following action? Action: The student sends Steven a polite message asking him to contribute by tomorrow, copying in the project 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

# 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=7>

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.