# Applaa UCAT Practice Mock 2

Mock Practice Exam Booklet

## Applaa: Socratic Practice Engine

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**https://applaa.com/practice/check?exam=ucat&paper=2**

# 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;=2** 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.

# 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: Public health campaigns in Italy during the late twentieth century made significant progress in combating infectious diseases. In 2014, the incidence rate of Tuberculosis was recorded at 286 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 203 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 Italy decreased after the public health campaign.

**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 Chile during the late twentieth century made significant progress in combating infectious diseases. In 1986, the incidence rate of Cholera was recorded at 129 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 79 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 Cholera per 100,000 people in Chile 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: In 2011, research conducted by researchers led by Dr. Marcus Vance at the Materials Science Lab investigated the properties of Borophene. Initial experimental setups achieved an energy conversion efficiency of 17 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Borophene to 42 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



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### 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 1831, the annual production of cotton in Peru stood at approximately 27 million metric tons. Following key infrastructure improvements and trade agreements with Portugal, production in Peru surged to 57 million metric tons by 1843. During this same period, Finland emerged as the primary global importer of cotton, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: Finland signed an official trade treaty with Peru to secure its import of cotton.

**A:** True

**B:** False

**C:** Can't Tell

### Question 5 — [Decision Making / venn_deduction]

Based on the Venn diagram, how many members belong to both Tennis and Athletics?

**A:** 15

**B:** 20

**C:** 30

**D:** 17

### 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:** 68

**B:** 81

**C:** 70

**D:** 73



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### 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 combined revenue of Dept D and Dept A (in thousands)?

**A:** $230k
**B:** $220k
**C:** $200k
**D:** $240k
**E:** $210k

### Question 10 — [Quantitative Reasoning / table_interpretation]

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

**A:** $100.7k
**B:** $104.4k
**C:** $82.8k
**D:** $95.3k
**E:** $87.1k

### Question 11 — [Quantitative Reasoning / chart_interpretation]

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

**A:** $200k
**B:** $180k
**C:** $170k
**D:** $190k
**E:** $220k

### Question 12 — [Quantitative Reasoning / table_interpretation]

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

**A:** $153.3k
**B:** $125.8k
**C:** $138.3k
**D:** $133.3k
**E:** $147.4k



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### Question 13 — [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" /> <circle cx="50.5" cy="18.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="17.5" cy="16.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="52.5" cy="54.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="19.5" cy="55.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> </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" /> <circle cx="55.5" cy="49.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="51.5" cy="16.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="15.5" cy="14.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> </svg>

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### 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="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>

**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="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>

**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="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>

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**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="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>

### Question 15 — [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 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



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### Question 17 — [Situational Judgement / importance]

Scenario: A medical student, Amelia, at St. Anthony's is deciding whether to speak up during a consultation in hematology on Thursday morning when they notice a mistake in the treatment plan for a 70-year-old patient. How important is the following factor to consider? Factor: The gender of the patient being treated.

**A:** Very Important

**B:** Important

**C:** Of Minor Importance

**D:** Not Important at All

### Question 18 — [Situational Judgement / importance]

Scenario: A junior doctor, Jessica, has been asked by a colleague to swap a scheduled on-call shift in geriatrics at St. Mary's Hospital so the colleague can attend an event on on Tuesday morning. How important is the following factor to consider? Factor: The specific personal reason the colleague wants to swap the shift.

**A:** Very Important

**B:** Important

**C:** Of Minor Importance

**D:** Not Important at All

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

Scenario: A junior doctor, Sophia, at City General Infirmary discovers that her close colleague, Brian, who has worked there for 7 months, has been falsifying overnight patient observation logs in pediatrics. How appropriate is the following action? Action: The doctor decides not to report it to protect her colleague's medical career.

**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 / appropriateness]

Scenario: A busy junior doctor, Hannah, at Valley View is asked by a nurse to prescribe ibuprofen for a 70-year-old patient in the emergency ward she has not yet met or reviewed. She has been on shift for 4 hours. How appropriate is the following action? Action: The doctor writes the prescription over the phone without reviewing the patient's chart or history.

**A:** A very appropriate thing to do

**B:** Appropriate, but not ideal

**C:** Inappropriate, but not awful

**D:** A very inappropriate thing to do



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# 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;=2**

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.