



# Applaa UCAT Practice Mock 178

Mock Practice Exam Booklet

## Applaa: Socratic Practice Engine

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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;=178> 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: Public health campaigns in Ecuador during the late twentieth century made significant progress in combating infectious diseases. In 1973, the incidence rate of Tuberculosis was recorded at 183 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 127 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 Ecuador 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: In 2016, research conducted by researchers led by Prof. Richard Feynman at the Renewable Energy Research investigated the properties of Silicene. Initial experimental setups achieved an energy conversion efficiency of 29 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Silicene to 45 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 Renewable Energy Research was funded by a government scientific grant.

- 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 Thailand during the late twentieth century made significant progress in combating infectious diseases. In 2014, the incidence rate of Cholera was recorded at 228 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 156 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 Thailand 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: In 2012, research conducted by researchers led by Dr. Barbara McClintock at the Materials Science Lab investigated the properties of Silicene. Initial experimental setups achieved an energy conversion efficiency of 28 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Silicene to 43 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 Dr. Barbara McClintock managed to increase the energy conversion efficiency of Silicene.

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

**Question 5 — [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 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 / 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: 84
- B: 79
- C: 89
- D: 69

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

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

- A: \$190k
- B: \$160k
- C: \$140k
- D: \$150k
- E: \$180k

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

What is the combined revenue of Dept D and Dept B (in thousands)?

- A: \$230k
- B: \$280k
- C: \$260k
- D: \$250k
- E: \$270k

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

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

- A: 1:4
- B: 3:2
- C: 10:13
- D: 3:5
- E: 1:3

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

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

- A: \$210k
- B: \$170k
- C: \$220k
- D: \$200k
- E: \$190k

**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;"> <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="18.5,2.9000000000000004 31.1,15.5 18.5,28.1 5.9,15.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,37.9 33.1,50.5 20.5,63.1 7.9,50.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="50.5,41.9 63.1,54.5 50.5,67.1 37.9,54.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="49.5,3.9000000000000004 62.1,16.5 49.5,29.1 36.9,16.5" 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="14.5,37.9 27.1,50.5 14.5,63.1 1.9000000000000004,50.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="55.5,40.9 68.1,53.5 55.5,66.1 42.9,53.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="14.5,1.9000000000000004 27.1,14.5 14.5,27.1 1.9000000000000004,14.5" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>`

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**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="52.5,42.9 65.1,55.5 52.5,68.1 39.9,55.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="18.5,36.9 31.1,49.5 18.5,62.1 5.9,49.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="55.5,1.9000000000000004 68.1,14.5 55.5,27.1 42.9,14.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="19.5,1.9000000000000004 32.1,14.5 19.5,27.1 6.9,14.5" 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="50.5,39.9 63.1,52.5 50.5,65.1 37.9,52.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="49.5,3.9000000000000004 62.1,16.5 49.5,29.1 36.9,16.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="16.5,5.9 29.1,18.5 16.5,31.1 3.9000000000000004,18.5" fill="#888888" stroke="#000000" stroke-width="2" /> </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 / 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 / importance]**

Scenario: A medical student, Amelia, at General Infirmary is deciding whether to raise a complaint about a consultant in cardiology who is consistently 25 minutes late to teaching sessions. How important is the following factor to consider? Factor: How popular the consultant is among the rest of the student cohort.

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

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

Scenario: An elderly 76-year-old patient at Memorial Hospital on a busy Saturday shift tells a medical student, Alice, that she lives alone and has no heating. The registrar, who has worked there for 2 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 19 — [Situational Judgement / importance]**

Scenario: A medical student, Ella, at Westside Clinic is deciding whether to speak up during a consultation in general surgery on Friday night when they notice a mistake in the treatment plan for a 69-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 20 — [Situational Judgement / appropriateness]**

Scenario: A medical student, Isabella, on a cardiology placement at Valley View is told by a 73-year-old patient in confidence during the Monday morning rounds that they plan to physically harm their partner later that day. How appropriate is the following action? Action: The student promises to keep this completely confidential to maintain the patient's trust.

- 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=ucate&paper;=178>

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.