



# Applaa UCAT Practice Mock 21

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;=21> 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 Sweden during the late twentieth century made significant progress in combating infectious diseases. In 2005, the incidence rate of Tuberculosis was recorded at 256 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 182 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: Rising temperatures caused the incidence rate of Tuberculosis to increase during the 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: During the mid-nineteenth and early twentieth centuries, global trade networks reshaped national economies. In 1862, the annual production of lithium in Thailand stood at approximately 43 million metric tons. Following key infrastructure improvements and trade agreements with Ukraine, production in Thailand surged to 68 million metric tons by 1893. During this same period, Kenya emerged as the primary global importer of lithium, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: The annual production of lithium in Thailand was higher in 1893 than it was in 1862.

- 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 2022, research conducted by researchers led by Dr. Chien-Shiung Wu at the Astrophysics Division investigated the properties of Titanium-Beta. 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 Titanium-Beta to 28 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 Astrophysics Division was funded by a government scientific grant.

- 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: Public health campaigns in Kenya during the late twentieth century made significant progress in combating infectious diseases. In 2001, the incidence rate of Malaria was recorded at 121 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 38 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 nationwide distribution of protective nets cost the government of Kenya over ten million dollars.

- 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 / venn\_deduction]**

Based on the Venn diagram, how many members belong to both Dog Owners and Bird Owners?

- A: 8
- B: 3
- C: 10
- D: 13

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

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

- A: 53
- B: 51
- C: 43
- D: 33

**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 D to that of Dept A?

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

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

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

- A: \$172.4k
- B: \$155.1k
- C: \$150.8k
- D: \$178.3k
- E: \$163.3k

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

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

- A: 1:1
- B: 3:5
- C: 4:1
- D: 11:6
- E: 2:5

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

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

- A: \$190k
- B: \$210k
- C: \$200k
- D: \$180k
- E: \$220k

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

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

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**Question 14 — [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 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 / 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="54.5,67.1,19.5 54.5,32.1 41.9,19.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,38.9 65.1,51.5 52.5,64.1 39.9,51.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,7.9 33.1,20.5 20.5,33.1 7.9,20.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="16.5,40.9 29.1,53.5 16.5,66.1 3.9000000000000004,53.5" 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="16.5,40.9 29.1,53.5 16.5,66.1 3.9000000000000004,53.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,7.9 33.1,20.5 20.5,33.1 7.9,20.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="51.5,39.9 64.1,52.5 51.5,65.1 38.9,52.5" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>`

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

Scenario: A GP, Lily, in dermatology at Grace Medical Center is deciding whether to refer an anxious 65-year-old patient for an MRI scan for back pain, which is not clinically indicated. The patient has been experiencing symptoms for 2 weeks. How important is the following factor to consider? Factor: The patient's anxiety and their explicit request for the scan.

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

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

Scenario: A junior doctor, Ella, at General Infirmary is running late on a busy Saturday shift. A 82-year-old patient arrives 20 minutes late for their appointment on a ward with 15 beds, and the receptionist asks how to proceed. How appropriate is the following action? Action: The doctor asks the receptionist to reschedule the patient for the next available clinic day.

- 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, Lily, in general surgery at St. Mary's Hospital is considering whether to stay past her shift on Tuesday morning to finish routine paperwork. She has already worked 12 hours. How important is the following factor to consider? Factor: The doctor's current level of fatigue and its potential impact on accuracy.

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

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

Scenario: A medical student, Emily, on a dermatology placement at St. John's Clinic is told by a 84-year-old patient in confidence on Sunday night 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=ucat&paper;=21>

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.