Applaa UCAT Practice Mock 59

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=59

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;=59** 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 Philippines during the late twentieth century made significant progress in combating infectious diseases. In 2003, the incidence rate of Dengue Fever was recorded at 179 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 99 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 Philippines over ten million dollars.

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 2023, research conducted by researchers led by Prof. Alan Turing at the Astrophysics Division investigated the properties of Phosphorene. Initial experimental setups achieved an energy conversion efficiency of 30 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Phosphorene to 55 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. Alan Turing managed to increase the energy conversion efficiency of Phosphorene.

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 2017, research conducted by researchers led by Dr. Vera Rubin at the Renewable Energy Research investigated the properties of Helium-3. 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 Helium-3 to 30 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. Vera Rubin managed to increase the energy conversion efficiency of Helium-3.

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: Public health campaigns in Peru during the late twentieth century made significant progress in combating infectious diseases. In 1992, the incidence rate of Cholera was recorded at 140 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 66 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 Peru over ten million dollars.

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: 21

B: 13

C: 11

D: 19

Question 6 — [Decision Making / venn_deduction]

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

A: 43

B: 33

C: 41

D: 28

Question 7 — [Decision Making / venn_deduction]

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

A: 8

B: 3

C: 5

D: 16

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

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Question 9 — [Quantitative Reasoning / table_interpretation]

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

A: 17.2%
B: 11.8%
C: 3.6%
D: 6.8%
E: 26.8%

Question 10 — [Quantitative Reasoning / chart_interpretation]

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

A: 5:2
B: 2:1
C: 5:3
D: 13:9
E: 3:2

Question 11 — [Quantitative Reasoning / chart_interpretation]

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

A: $120k
B: $150k
C: $130k
D: $110k
E: $140k

Question 12 — [Quantitative Reasoning / chart_interpretation]

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

A: 1:4
B: 1:3
C: 3:2
D: 14:9
E: 4:1

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;"> <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>

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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;"> <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="40.0" y1="35" x2="10" y2="35" stroke="#000000" stroke-width="2" /><polygon points="60,35 40.0,25.0 40.0,45.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>

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 / set_ab]

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

A: Set A

B: Set B

C: Neither

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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="53.5,63.84 63.32044,46.83 43.67956,46.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,29.84 62.32044,12.83 42.67956,12.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="17.5,43.16 27.320439999999998,60.17 7.67956,60.17" 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="52.5,6.16 62.32044,23.17 42.67956,23.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="19.5,3.16 29.320439999999998,20.17 9.67956,20.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,65.84 62.32044,48.83 42.67956,48.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,65.84 30.320439999999998,48.83 10.67956,48.83" 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="15.5,26.84 25.320439999999998,9.83 5.67956,9.83" 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="19.5,61.84 29.320439999999998,44.83 9.67956,44.83" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

Question 17 — [Situational Judgement / importance]

Scenario: A medical student, Chloe, at Saint Luke's is writing up a clinical case study about a 72-year-old patient from their neurology rotation that lasted 3 weeks. How important is the following factor to consider? Factor: The student's personal opinion of the patient's lifestyle choices.

A: Very Important

B: Important

C: Of Minor Importance

D: Not Important at All

Question 18 — [Situational Judgement / appropriateness]

Scenario: A junior doctor, Amelia, at Community Health discovers that her close colleague, Alex, who has worked there for 5 months, has been falsifying overnight patient observation logs in general surgery. 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 19 — [Situational Judgement / appropriateness]

Scenario: A medical student, Ruby, at City General Infirmary finds a public social media page run by a peer that posts mocking descriptions of patients from their cardiology placement, which has 18 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 20 — [Situational Judgement / importance]

Scenario: A medical student, Hannah, at City General Infirmary is writing up a clinical case study about a 92-year-old patient from their psychiatry rotation that lasted 4 weeks. How important is the following factor to consider? Factor: The student's personal opinion of the patient's lifestyle choices.

A: Very Important

B: Important

C: Of Minor Importance

D: Not Important at All

Check Answers: applaa.com/practice/check?exam=ucat&paper=59

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;=59**

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.