Applaa UCAT Practice Mock 36

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=36

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;=36** 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 Australia during the late twentieth century made significant progress in combating infectious diseases. In 2000, the incidence rate of Yellow Fever was recorded at 165 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 nationwide distribution of protective nets cost the government of Australia 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: Public health campaigns in Ecuador during the late twentieth century made significant progress in combating infectious diseases. In 1980, the incidence rate of Cholera was recorded at 244 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 176 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 Cholera to increase during the 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: During the mid-nineteenth and early twentieth centuries, global trade networks reshaped national economies. In 1882, the annual production of coal in Belgium stood at approximately 62 million metric tons. Following key infrastructure improvements and trade agreements with Australia, production in Belgium surged to 108 million metric tons by 1894. During this same period, Italy emerged as the primary global importer of coal, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: The annual production of coal in Belgium was higher in 1894 than it was in 1882.

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: In 2015, research conducted by researchers led by Dr. Aris Thorne at the Materials Science Lab investigated the properties of Graphene. Initial experimental setups achieved an energy conversion efficiency of 27 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Graphene to 40 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

Question 5 — [Decision Making / venn_deduction]

Based on the Venn diagram, how many members belong to Dog Owners and Cat Owners but NOT Bird Owners?

A: 6

B: 17

C: 9

D: 11

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 AT LEAST two clubs/groups?

A: 50

B: 45

C: 53

D: 42

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Question 8 — [Decision Making / venn_deduction]

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

A: 69
B: 57
C: 67
D: 62

Question 9 — [Quantitative Reasoning / table_interpretation]

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

A: 39.9%
B: 29.5%
C: 43.6%
D: 26.3%
E: 34.5%

Question 10 — [Quantitative Reasoning / chart_interpretation]

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

A: 5:2
B: 4:3
C: 15:14
D: 4:1
E: 1:4

Question 11 — [Quantitative Reasoning / table_interpretation]

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

A: -13.5%
B: -4.4%
C: -8.1%
D: -26.0%
E: 1.5%

Question 12 — [Quantitative Reasoning / chart_interpretation]

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

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

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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;"> <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="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>

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="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>

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>

Check Answers: applaa.com/practice/check?exam=ucat&paper=36

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="18.5,6.9 31.1,19.5 18.5,32.1 5.9,19.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="54.5,3.9000000000000004 67.1,16.5 54.5,29.1 41.9,16.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="15.5,39.9 28.1,52.5 15.5,65.1 2.9000000000000004,52.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="53.5,38.9 66.1,51.5 53.5,64.1 40.9,51.5" 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="14.5,1.9000000000000004 27.1,14.5 14.5,27.1 1.9000000000000004,14.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="49.5,1.9000000000000004 62.1,14.5 49.5,27.1 36.9,14.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="51.5,37.9 64.1,50.5 51.5,63.1 38.9,50.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="16.5,37.9 29.1,50.5 16.5,63.1 3.9000000000000004,50.5" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

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Question 15 — [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 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 GP, Sarah, in neurology at General Infirmary is deciding whether to refer an anxious 55-year-old patient for an MRI scan for back pain, which is not clinically indicated. The patient has been experiencing symptoms for 9 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 / importance]

Scenario: A junior doctor, Ella, has been asked by a colleague to swap a scheduled on-call shift in geriatrics at Westside Clinic so the colleague can attend an event on on Sunday night. 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 medical student, Emily, shadowing a consultant in oncology at Royal Hospital hears them make a culturally insensitive comment to a colleague in private during the Wednesday day-shift. How appropriate is the following action? Action: The student does not say anything at the time, but later discusses the event confidentially with a faculty advisor.

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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Question 20 — [Situational Judgement / importance]

Scenario: A medical student, Emily, at General Infirmary is deciding whether to report a classmate, Edward, who was seen copying answers during a formative hematology test worth 12 points. How important is the following factor to consider? Factor: Whether the exam was a formative test or a formal summative exam.

A: Very Important

B: Important

C: Of Minor Importance

D: Not Important at All

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■ **Section Complete!**
You have completed this practice exam paper. To check your answers and view step-by-step worked explanations:

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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.