Applaa UCAT Practice Mock 153

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=153

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;=153** 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 Austria during the late twentieth century made significant progress in combating infectious diseases. In 1972, the incidence rate of Tuberculosis was recorded at 164 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 74 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 Austria 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 2021, research conducted by researchers led by Prof. Lise Meitner at the Molecular Biology Unit investigated the properties of Carbon-Nanotubes. Initial experimental setups achieved an energy conversion efficiency of 25 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Carbon-Nanotubes 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: Carbon-Nanotubes became commercially viable immediately following the trials led by Prof. Lise Meitner.

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 Norway during the late twentieth century made significant progress in combating infectious diseases. In 2010, the incidence rate of Dengue Fever was recorded at 206 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 121 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 Dengue Fever per 100,000 people in Norway decreased after the public health campaign.

A: True

B: False

C: Can't Tell

Check Answers: applaa.com/practice/check?exam=ucat&paper=153

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 1876, the annual production of cobalt in India stood at approximately 22 million metric tons. Following key infrastructure improvements and trade agreements with Austria, production in India surged to 59 million metric tons by 1913. During this same period, Philippines emerged as the primary global importer of cobalt, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: Austria produced more cobalt than India did between 1876 and 1913.

A: True

B: False

C: Can't Tell

Question 5 — [Decision Making / venn_deduction]

Based on the Venn diagram, how many members belong to Tennis and Swimming but NOT Athletics?

A: 17

B: 4

C: 7

D: 2

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 both Dog Owners and Bird Owners?

A: 16
B: 6
C: 21
D: 26

Question 9 — [Quantitative Reasoning / chart_interpretation]

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

A: $280k
B: $270k
C: $250k
D: $260k
E: $300k

Question 10 — [Quantitative Reasoning / chart_interpretation]

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

A: 3:1
B: 3:4
C: 3:5
D: 2:3
E: 8:11

Question 11 — [Quantitative Reasoning / chart_interpretation]

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

A: 4:3
B: 5:2
C: 6:7
D: 3:1
E: 3:5

Question 12 — [Quantitative Reasoning / table_interpretation]

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

A: $285.0k
B: $280.0k
C: $272.5k
D: $276.8k
E: $294.1k

Check Answers: applaa.com/practice/check?exam=ucat&paper=153

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="52.5,8.16 62.32044,25.17 42.67956,25.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,64.84 30.320439999999998,47.83 10.67956,47.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="14.5,30.84 24.320439999999998,13.83 4.67956,13.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="50.5,64.84 60.32044,47.83 40.67956,47.83" 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="14.5,8.16 24.320439999999998,25.17 4.67956,25.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,63.84 62.32044,46.83 42.67956,46.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="16.5,38.16 26.320439999999998,55.17 6.67956,55.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,25.84 62.32044,8.83 42.67956,8.83" fill="#888888" stroke="#000000" stroke-width="2" /> </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;"> <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="50.5,29.84 60.32044,12.83 40.67956,12.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="17.5,27.84 27.320439999999998,10.83 7.67956,10.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="49.5,39.16 59.32044,56.17 39.67956,56.17" fill="#888888" stroke="#000000" stroke-width="2" /> </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;"> <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="18.5,5.16 28.320439999999998,22.17 8.67956,22.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="18.5,60.84 28.320439999999998,43.83 8.67956,43.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="53.5,27.84 63.32044,10.83 43.67956,10.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="49.5,43.16 59.32044,60.17 39.67956,60.17" 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="52.5,38.16 62.32044,55.17 42.67956,55.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="17.5,26.84 27.320439999999998,9.83 7.67956,9.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="55.5,9.16 65.32044,26.17 45.67956,26.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,44.16 30.320439999999998,61.17 10.67956,61.17" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

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 junior doctor, Sophie, at St. Vincent's is deciding whether to escalate a deteriorating 74-year-old patient in the oncology ward to the registrar on call on Friday night. How important is the following factor to consider? Factor: Whether the registrar will be annoyed or irritated by the call.

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

Question 18 — [Situational Judgement / importance]

Scenario: A medical student, Megan, at East Valley Hospital is deciding whether to report a classmate, Thomas, who was seen copying answers during a formative psychiatry test worth 21 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

Question 19 — [Situational Judgement / importance]

Scenario: A medical student, Hannah, at Saint Luke's is deciding whether to raise a complaint about a consultant in psychiatry who is consistently 29 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

Check Answers: applaa.com/practice/check?exam=ucat&paper=153

Question 20 — [Situational Judgement / appropriateness]

Scenario: A busy junior doctor, Emma, at Mount Sinai is asked by a nurse to prescribe codeine for a 77-year-old patient in the urology ward she has not yet met or reviewed. She has been on shift for 3 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

Check Answers: applaa.com/practice/check?exam=ucat&paper=153

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;=153**

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.