Applaa UCAT Practice Mock 218

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=218

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;=218** 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: In 2017, research conducted by researchers led by Prof. Richard Feynman at the Materials Science Lab investigated the properties of Aerogel. 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 Aerogel to 54 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 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 1894, the annual production of gold in Spain stood at approximately 50 million metric tons. Following key infrastructure improvements and trade agreements with Sweden, production in Spain surged to 90 million metric tons by 1923. During this same period, Belgium emerged as the primary global importer of gold, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: The annual production of gold in Spain was higher in 1923 than it was in 1894.

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 2013, research conducted by researchers led by Prof. Dorothy Hodgkin at the Astrophysics Division investigated the properties of Silicene. 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 Silicene to 41 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

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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 Switzerland during the late twentieth century made significant progress in combating infectious diseases. In 1994, the incidence rate of Dengue Fever was recorded at 230 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 149 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 Switzerland 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 Tennis and Athletics?

A: 18

B: 11

C: 24

D: 16

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

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Question 8 — [Decision Making / venn_deduction]

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

A: 39
B: 49
C: 47
D: 41

Question 9 — [Quantitative Reasoning / chart_interpretation]

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

A: $180k
B: $150k
C: $170k
D: $160k
E: $190k

Question 10 — [Quantitative Reasoning / table_interpretation]

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

A: $225.0k
B: $220.0k
C: $234.1k
D: $240.0k
E: $212.5k

Question 11 — [Quantitative Reasoning / chart_interpretation]

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

A: $180k
B: $170k
C: $190k
D: $160k
E: $200k

Question 12 — [Quantitative Reasoning / chart_interpretation]

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

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

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Question 13 — [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 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 / 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="51.5,40.9 64.1,53.5 51.5,66.1 38.9,53.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="15.5,5.9 28.1,18.5 15.5,31.1 2.9000000000000004,18.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="50.5,6.9 63.1,19.5 50.5,32.1 37.9,19.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="17.5,36.9 30.1,49.5 17.5,62.1 4.9,49.5" 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="16.5,38.9 29.1,51.5 16.5,64.1 3.9000000000000004,51.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="49.5,41.9 62.1,54.5 49.5,67.1 36.9,54.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="53.5,1.9000000000000004 66.1,14.5 53.5,27.1 40.9,14.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="19.5,7.9 32.1,20.5 19.5,33.1 6.9,20.5" 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="54.5,5.9 67.1,18.5 54.5,31.1 41.9,18.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,41.9 65.1,54.5 52.5,67.1 39.9,54.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="18.5,40.9 31.1,53.5 18.5,66.1 5.9,53.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="18.5,3.9000000000000004 31.1,16.5 18.5,29.1 5.9,16.5" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

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Question 16 — [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

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Question 17 — [Situational Judgement / importance]

Scenario: A doctor, Lucy, in the emergency clinic at Memorial Hospital is treating a 16-year-old patient who presents with physical injuries on Thursday morning. The teenager, who is accompanied by a relative, begs the doctor not to tell anyone. How important is the following factor to consider? Factor: The child protection and safeguarding duties of the medical team.

A: Very Important

B: Important

C: Of Minor Importance

D: Not Important at All

Question 18 — [Situational Judgement / appropriateness]

Scenario: A busy junior doctor, Lily, at Southside Medical is asked by a nurse to prescribe paracetamol for a 69-year-old patient in the psychiatry ward she has not yet met or reviewed. She has been on shift for 8 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

Question 19 — [Situational Judgement / appropriateness]

Scenario: A medical student, Alice, at Mercy Medical Center finds a public social media page run by a peer that posts mocking descriptions of patients from their hematology placement, which has 40 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, Ella, at State Medical Center is deciding whether to raise a complaint about a consultant in general surgery who is consistently 40 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

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;=218**

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.