Applaa UCAT Practice Mock 108

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=108

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;=108** 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 Egypt during the late twentieth century made significant progress in combating infectious diseases. In 1991, the incidence rate of Malaria was recorded at 125 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 61 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 Malaria 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: In 2014, research conducted by researchers led by Prof. Richard Feynman at the Quantum Computing Lab investigated the properties of Helium-3. Initial experimental setups achieved an energy conversion efficiency of 21 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Helium-3 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: Helium-3 became commercially viable immediately following the trials led by Prof. Richard Feynman.

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 2010, research conducted by researchers led by Dr. Aris Thorne at the Genetic Engineering Center investigated the properties of Helium-3. Initial experimental setups achieved an energy conversion efficiency of 28 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Helium-3 to 50 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. Aris Thorne managed to increase the energy conversion efficiency of Helium-3.

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 Singapore during the late twentieth century made significant progress in combating infectious diseases. In 1974, the incidence rate of Cholera was recorded at 218 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 138 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 Singapore 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 Dog Owners and Bird Owners?

A: 15

B: 20

C: 25

D: 23

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 both Tennis and Athletics?

A: 27

B: 22

C: 17

D: 19

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 / table_interpretation]

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

A: $205.7k
B: $211.1k
C: $197.5k
D: $220.7k
E: $193.2k

Question 10 — [Quantitative Reasoning / chart_interpretation]

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

A: $210k
B: $180k
C: $190k
D: $160k
E: $170k

Question 11 — [Quantitative Reasoning / chart_interpretation]

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

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

Question 12 — [Quantitative Reasoning / chart_interpretation]

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

A: $270k
B: $280k
C: $240k
D: $230k
E: $250k

Check Answers: applaa.com/practice/check?exam=ucat&paper=108

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="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="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

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="55.5,39.9 68.1,52.5 55.5,65.1 42.9,52.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="49.5,6.9 62.1,19.5 49.5,32.1 36.9,19.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="18.5,1.9000000000000004 31.1,14.5 18.5,27.1 5.9,14.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="19.5,37.9 32.1,50.5 19.5,63.1 6.9,50.5" 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="50.5,4.9 63.1,17.5 50.5,30.1 37.9,17.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="18.5,42.9 31.1,55.5 18.5,68.1 5.9,55.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="49.5,39.9 62.1,52.5 49.5,65.1 36.9,52.5" 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="15.5,42.9 28.1,55.5 15.5,68.1 2.9000000000000004,55.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,1.9000000000000004 33.1,14.5 20.5,27.1 7.9,14.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="55.5,42.9 68.1,55.5 55.5,68.1 42.9,55.5" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

Question 17 — [Situational Judgement / importance]

Scenario: A medical student, Olivia, at Royal Hospital is deciding whether to speak up during a consultation in pediatrics during a late-night shift when they notice a mistake in the treatment plan for a 56-year-old patient. How important is the following factor to consider? Factor: The gender of the patient being treated.

A: Very Important

B: Important

C: Of Minor Importance

D: Not Important at All

Check Answers: applaa.com/practice/check?exam=ucat&paper=108

Question 18 — [Situational Judgement / appropriateness]

Scenario: During a emergency ward round on Sunday night at Memorial Hospital, a consultant asks a medical student, Sophia, a clinical question. The student, who has been shadowing for 6 weeks, does not know the answer. How appropriate is the following action? Action: The student invents a plausible-sounding answer hoping the consultant will not notice.

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, Sarah, on a endocrinology placement at Hope Hospital is told by a 67-year-old patient in confidence on a Thursday afternoon 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

Question 20 — [Situational Judgement / importance]

Scenario: A junior doctor, Ella, has been asked by a colleague to swap a scheduled on-call shift in general surgery at State Medical Center so the colleague can attend an event on on a Thursday afternoon. 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

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;=108**

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.