Applaa UCAT Practice Mock 136

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=136

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;=136** 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 2014, research conducted by researchers led by Dr. Aris Thorne at the Materials Science Lab investigated the properties of Gallium-Nitride. Initial experimental setups achieved an energy conversion efficiency of 20 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Gallium-Nitride 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: Gallium-Nitride became commercially viable immediately following the trials led by Dr. Aris Thorne.

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 2016, research conducted by researchers led by Prof. Elena Vance at the Quantum Computing Lab investigated the properties of Gallium-Nitride. Initial experimental setups achieved an energy conversion efficiency of 20 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Gallium-Nitride to 39 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 Quantum Computing Lab was funded by a government scientific grant.

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 Finland during the late twentieth century made significant progress in combating infectious diseases. In 1999, the incidence rate of Malaria was recorded at 295 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 207 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 Malaria per 100,000 people in Finland decreased after the public health campaign.

A: True

B: False

C: Can't Tell

Check Answers: applaa.com/practice/check?exam=ucat&paper=136

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 Venezuela during the late twentieth century made significant progress in combating infectious diseases. In 1976, the incidence rate of Tuberculosis was recorded at 199 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 110 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 Venezuela 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 / 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

Check Answers: applaa.com/practice/check?exam=ucat&paper=136

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 / chart_interpretation]

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

A: $180k
B: $170k
C: $130k
D: $160k
E: $150k

Question 10 — [Quantitative Reasoning / chart_interpretation]

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

A: $180k
B: $150k
C: $130k
D: $140k
E: $160k

Question 11 — [Quantitative Reasoning / table_interpretation]

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

A: $262.0k
B: $282.0k
C: $272.4k
D: $254.5k
E: $267.0k

Question 12 — [Quantitative Reasoning / chart_interpretation]

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

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

Check Answers: applaa.com/practice/check?exam=ucat&paper=136

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;"> <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>

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="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 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="50.5,27.84 60.32044,10.83 40.67956,10.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="54.5,64.84 64.32044,47.83 44.67956,47.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="15.5,25.84 25.320439999999998,8.83 5.67956,8.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,60.84 30.320439999999998,43.83 10.67956,43.83" 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="52.5,64.84 62.32044,47.83 42.67956,47.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="20.5,31.84 30.320439999999998,14.83 10.67956,14.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="16.5,66.84 26.320439999999998,49.83 6.67956,49.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="52.5,3.16 62.32044,20.17 42.67956,20.17" 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="17.5,65.84 27.320439999999998,48.83 7.67956,48.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="17.5,25.84 27.320439999999998,8.83 7.67956,8.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="54.5,27.84 64.32044,10.83 44.67956,10.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="51.5,60.84 61.32044,43.83 41.67956,43.83" 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="50.5,26.84 60.32044,9.83 40.67956,9.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="16.5,8.16 26.320439999999998,25.17 6.67956,25.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="15.5,41.16 25.320439999999998,58.17 5.67956,58.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="50.5,42.16 60.32044,59.17 40.67956,59.17" 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="51.5,6.16 61.32044,23.17 41.67956,23.17" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="18.5,66.84 28.320439999999998,49.83 8.67956,49.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="14.5,28.84 24.320439999999998,11.83 4.67956,11.83" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="54.5,62.84 64.32044,45.83 44.67956,45.83" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

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

Question 17 — [Situational Judgement / appropriateness]

Scenario: A medical student, Sarah, at General Infirmary finds a public social media page run by a peer that posts mocking descriptions of patients from their oncology placement, which has 21 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 18 — [Situational Judgement / importance]

Scenario: A junior doctor, Olivia, in emergency at General Infirmary is considering whether to stay past her shift during a late-night shift to finish routine paperwork. She has already worked 7 hours. How important is the following factor to consider? Factor: The doctor's current level of fatigue and its potential impact on accuracy.

A: Very Important

B: Important

C: Of Minor Importance

D: Not Important at All

Question 19 — [Situational Judgement / importance]

Scenario: A junior doctor, Sophia, at Parkview Hospital is deciding whether to escalate a deteriorating 60-year-old patient in the endocrinology ward to the registrar on call on a Thursday afternoon. 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 20 — [Situational Judgement / importance]

Scenario: A medical student, Amelia, at Saint Luke's is writing up a clinical case study about a 59-year-old patient from their urology rotation that lasted 12 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

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;=136**

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.