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# UCAT

# Sample Notes

5 sample questions

1. Verbal Reasoning
2. Decision Making
3. Quantitative Reasoning
4. Abstract Reasoning
5. Situational Judgement

## Verbal Reasoning

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Halley's Comet, officially designated 1/P Halley, is a short-period comet visible from Earth every 75-76 years. Halley is the only known short-period comet that is clearly visible to the naked eye from Earth, and the only naked-eye comet that might appear twice in a human lifetime. Halley last appeared in the inner Solar System in 1986 and will next appear in mid-2061.

Halley's returns to the inner Solar System have been observed and recorded by astronomers since at least 240 BC. Clear records of the comet's appearances were made by Chinese, Babylonian and medieval European Chroniclers, but were not recognised as reappearances of the same object at the time. The comet's periodicity was first determined in 1705 by English astronomer Edmond Halley, after whom it is now named.

During its 1986 apparition, Halley's Comet became the first comet to be observed in detail by spacecraft, providing the first observational data on the structure of a comet nucleus and the mechanism of coma and tail formation. These observations supported a number of longstanding hypotheses about comet construction, particularly Fred Whipple's "dirty snowball" model, which correctly predicted that Halley would be composed of a mixture of volatile ices – such as water, carbon dioxide, and ammonia – and dust. The missions also provided data that substantially reformed and reconfigured these ideas; for instance, now it is understood that the surface of Halley is largely composed of dusty, non-volatile materials, and that only a small portion of it is icy.

Bearing the passage in mind, which of these options is most likely true?

- (A) In theory, Halley's comet could be viewed three times during a person's lifetime
- (B) The comet was named after Halley as he was the first person to see the comet
- (C) Officially, the comet is referred to as Halley's comet after Edward Halley
- (D) A comet has a nucleus and a tail present

## Decision Making

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Several families live in the small suburb of Starway, enjoying their time with pets and children.

Tyson and Clara's first pet was a dog, Chowder, which they brought up from its birth. They later adopt a 5-year old cat, Sombrero, before Tyson turned 50 in 2007.

Zara was born to Sandra and Tony after they married in 2011 and before they moved house in 2013.

In 2014, Akshay and Debbie gave birth to twins, Stephanie and Simran.

Which of the following statements **MUST** be true?

- (A) Chowder is older than Sombrero
- (B) Simran is younger than Stephanie
- (C) Sombrero is older than Zara
- (D) Zara is at least 2 years older than Simran

## Quantitative Reasoning

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A B&B offers a variety of different rooms charged at different prices, as shown by the table below. Included in the table is a service time, which gives an average of how long it takes the cleaner to service the respective rooms after each stay.

Room name	Price per night/£	Service time/mins
Grant suite	50	30
Lohan suite	64	36
McAvoy suite	81	48
Hathaway suite	105	72
DiCaprio suite	130	90

Each room is only serviced once per customer and the cleaner is paid £9.50 an hour.

As part of the B&B policy, the customer is allowed to request a partial refund for any parts of their stay that they found unsatisfactory.

Over the course of a year, the Grant suite is occupied for 176 nights. How much revenue does the B&B make from this room, including service charges, assuming all the guests stayed for 2 nights?

- (A) £7,964
- (B) £8,382
- (C) £8,800
- (D) £8,956
- (E) £9,094

# Abstract Reasoning

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Which figure completes the statement?

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## Situational Judgement

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Sandeep and Bryony are two second year medical students who are on a clinical placement at their local GP practice. They have been asked to take a history of a patient, Mrs Smith, who has come to the GP complaining of right abdominal pain. During the conversation, Bryony notices that Mrs Smith is avoiding eye contact with Sandeep and avoids answering any of the questions that Sandeep is asking her. This is causing Sandeep to feel very upset and she excuses herself from the room. When Sandeep leaves, Mrs Smith makes a very racist remark. Bryony has heard this and is very shocked.

How appropriate are the following responses by Bryony when deciding how to respond to the situation?

Tell Sandeep what Mrs Smith said, so that Sandeep reports this.

- (A) A very appropriate thing to do
- (B) Appropriate, but not ideal
- (C) Inappropriate, but not awful
- (D) A very inappropriate thing to do