**UKCAT Quantitative Reasoning Practice Test 1**

**In an end-of-term exam a sixth form group of four males and four females received the following marks out of 20.**

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| --- | --- | --- |
| **Sixth form ID numbers 1 - 8** | **Gender** **(m=male; f=female)** | **Score** |
| 1 | F | 17 |
| 2 | M | 12 |
| 3 | M | 2 |
| 4 | F | 5 |
| 5 | M | 8 |
| 6 | F | 10 |
| 7 | F | 6 |
| 8 | M | 6 |

1. What was the mean (average score) across the 8 sixth-form pupils?

(A) 8.00

(B) 8.25

(C) 8.50

(D) 8.75

(E) 9.00

1. What was the most common (modal score) across the 8 sixth-form pupils?

(A) 5

(B) 8

(C) 6

(D) 10

(E) 12

1. What is the average score for males compared to females?

(A) 14:19

(B) 5:9

(C) 4:9

(D) 2:5

(E) 3:5

1. The range of grades that were assigned to these scores were as follows: A = 17 - 20; B = 13 - 16; C= 9 - 12 ; D= 5 - 8 ; E = 1 - 4. What was the ratio of A’s and B’s compared to D’s and E’s?

(A) 1:1

(B) 1:2

(C) 1:3

(D) 1:4

(E) 1:5

1. Another pupil sits the test and receives a score of 8. What is the median score?

(A) 5

(B) 6

(C) 7

(D) 8

(E) 9

1. The same class of 8 pupils takes the test again in 6 months time. This time the mean average score stayed the same, however the mean for the female pupils increased to 10. What is the mean score for the male pupils?

(A) 6.7

(B) 6.6

(C) 6.5

(D) 6.4

(E) 6.3

**Below are shown the times in various cities around the world when it is 11.00 in London.**

|  |  |
| --- | --- |
| **CAPITAL** | **LOCAL TIME** |
| Buenos Aires | 08.00 |
| Tokyo | 20.00 |
| Sydney | 22.00 |
| Singapore | 19.00 |
| Paris | 12.00 |
| New York | 06.00 |
| Moscow | 14.00 |
| Tehran | 14.30 |

1. What is the time difference between Paris and Tokyo?

(A) 12 hours

(B) 7 hours

(C) 14 hours

(D) 8 hours

(E) 9 hours

1. What is the time in Moscow when it is 09.00 in London?

(A) 06.00

(B) 03.00

(C) 11.00

(D) 15.00

(E) 12.00

1. A plane leaves New York at 22.00 local time and arrives in London at 09.00 local time. How long was the flight?

(A) 5.5 hours

(B) 6 hours

(C) 6.5 hours

(D) 7 hours

(E) 7.5 hours

1. A passenger is planning to travel on a 13.00 flight lasting four hours from London to Tehran. At what local time can they expect the plane to land in Tehran?

(A) 20.00

(B) 20.30

(C) 21.00

(D) 21.30

(E) 22.00

1. A traveler adjusts his watch incorrectly whilst traveling from London to Buenos Aires. As a result, his clock is an hour fast. What time does his watch show when it is 11.00 in London?

(A) 09.00

(B) 08.00

(C) 10.00

(D) 13.00

(E) 14.00

1. At London airport a business passenger catches a flight to Singapore. Their colleague flies from London to New York and calls their colleague upon arrival at 13.00 local time. What is the time in Singapore?

(A) 21.00

(B) 10.00

(C) 03.00

(D) 01.00

(E) 23.00