QA Maths Sample Test

with answers

QA Higher Education Diagnostic Maths Test

Date Test Sat _____

Applicant Name_____

A-Number _____

QAHE Invigilator_____

Location_____

Results (Pass/Fail) _____

Instructions

This test co nsists of 15 m ultiple cho ic e q uestions.

Pleas e ans wer a ll o f t h e q ues tions.

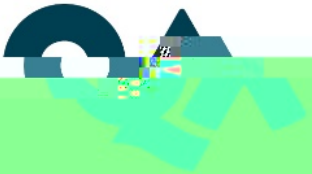
You a re permitted to u se a c alculator d uring t he test.

Mobile phones a nd other el ectronic dev ices m ust n ot be used during t he te st.

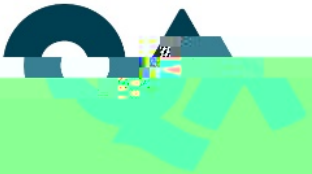
You a re allowed u p to 30 m inutes t o c omple te th e test.

Each question is worth two m arks.

Mark s are not



2. What is the range of calculators



7. Brian always has pizza for dinner on a Thursday. He always leaves a slice to take to work for his lunch on Friday.

Brian eats 7/8 of the pizza and leaves 1/8 for lunch. What % of the pizza did Brian û d

8. Brian takes his wife and two children to the cinema. Look at the following price list:

Adult ticket	£9
Child ticket	£4.50
Family ticket (two adults and two children)	£25
Drinks	£3
Popcorn	£5
Ice-cream	£4

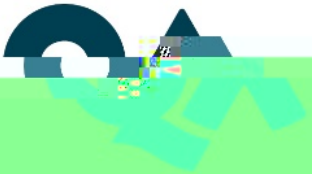
Brian buys the cheapest option for the tickets, four drinks, one popcorn and one ice-cream. What was the total cost of the trip?

A. £40

B. £37

C. £46

D. £39



11. If the total cost of production for Formulaic Limited in February was £34,000, how many units were made?

A. 3,476 units

B. 3,238 units

C. 3,000 units

D. 3,500 units

12. The exchange rate is currently $1 to £0.65. If you had £600, how many $ would you get if you exchanged your money (to the nearest $)?

A. $390

B. $923

C. $657

D. $405

13. **If y = 27x + 405, what does x equal?**

A. x = (y - 27)/405

B. x = (y - 405)/27

C. x = y - 432

D. x = y/27 - 405

14. **One rectangle has sides of 2cm and 5cm. A second rectangle has sides of 4cm and 10cm. Express the areas of the two rectangles as a ratio:**

A. 1:4

B. 1:2

C. 1:5

D. 1:3

15. **Solve the expression**

ANSWERS

1. D
2. D
3. B
4. A
5. B
6. B
7. B
8. C
9. B
10. D
11. C
12. B
13. B
14. A
15. A