



THE AMBASSADORS SCHOOLS, OTA

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THE ULTIMATE MATHEMATICS AMBASSADOR 2017



(Annual Mathematics Competition)

STAGE 2 - ROUND 1

TIME ALLOWED: 40 minutes

INSTRUCTIONS

1. This Round consists of 4 theory questions.
2. This Round is worth 40 marks.
3. Each question is worth 10 marks.
4. Please ensure that you show all necessary workings before arriving at your final answer.
5. Orderliness, neatness and clarity is encouraged.

INSTRUCTION: Answer all questions in this section. Show all your workings in this section clearly, neatly and orderly.

1. A woman borrowed ₦150.00 for a six-month period and paid ₦175.00 back after this period. At this same rate, find the interest on ₦200.00 borrowed for two years.

(10 marks)

2. James selects a number. He divides it by 4, then multiplies by 6 and finally adds 7 to the results. That way he comes up with the largest two-digit prime number. Which number did he select?

(10 marks)

3. The sides of a triangle are in the ratio 5:8:5. If the perimeter of the triangle is 54cm, find the
- (a) longest side of the triangle
 - (b) height of the triangle
 - (c) area of the triangle

(10 marks)

4. The median of 3, 4, 2, x , 1 and 8 is x .
- (a) Find x
 - (b) Hence find the mean and mode of the scores

(10 marks)

