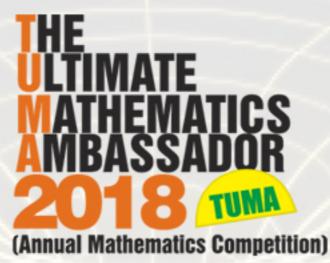


## THE AMBASSADORS SCHOOLS, OTA

E-mail: theambassadorsschools@gmail.com Tel: 08055103318, 07089995042, 08068904666



# STAGE 2 - ROUND 1

7ME ALLOWED: 60 minutes

### INSTRUCTIONS

- 1. This Round consists of 4 theory questions.
- 2. This Round is worth 40 marks.
- 3. Each question is worth 10 marks.
- 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.

- Royal Star buses have seventeen rows of 4 seats each and four rows of 3 seats each. 20 of such buses are used for conveying spectators to and from a football stadium. It was also observed that five of the buses each had 8 faulty seats, which cannot be used. `
  - (a) If each bus makes a total of 2 trips to the stadium. How many spectators were conveyed?
  - (b) If all the spectators taken are returned using 13 of the buses with full carrying capacity, how many trips will each bus have to take to move them?

#### (10 marks)

- A one-kobo coin in the shape of a cylinder is of radius 2cm and thickness
  0.7cm.
  - (a) Find in  $cm^3$ , the space occupied by a one-kobo coin
  - (b) Find the value (in Naira) of a pile of such coins with a total volume of 13 200*cm*<sup>3</sup>

#### (10 marks)

- 3. (a) Simplify  $5\frac{5}{8} 3\frac{1}{5} \div 1\frac{1}{7} + \frac{7}{10} \times 2\frac{6}{7}$ 
  - (b) When a number is increased by 12 and then the result multiplied by two, it yields a result of 86. Find the number

#### (10 marks)



- Mr. Ade's salary of ¥25 000 was increased by 10%, Mr. Phillip's salary of ¥15,000 was increased by 30%, while Mr. Ogechi's salary of ¥30,000 was increased by 15%.
  - (a) Find the ratio of their new salaries.
  - (b) Find the increase in the average salary of the three men (correct to the nearest Naira)

(10 marks)

