

# *The Ambassadors College, Ota*

**GRADE 8**

**Second Term**

**Holiday Assignment**

**HOLIDAY ASSIGNMENT**

**2023/2024 Academic Session**

**Name:** \_\_\_\_\_

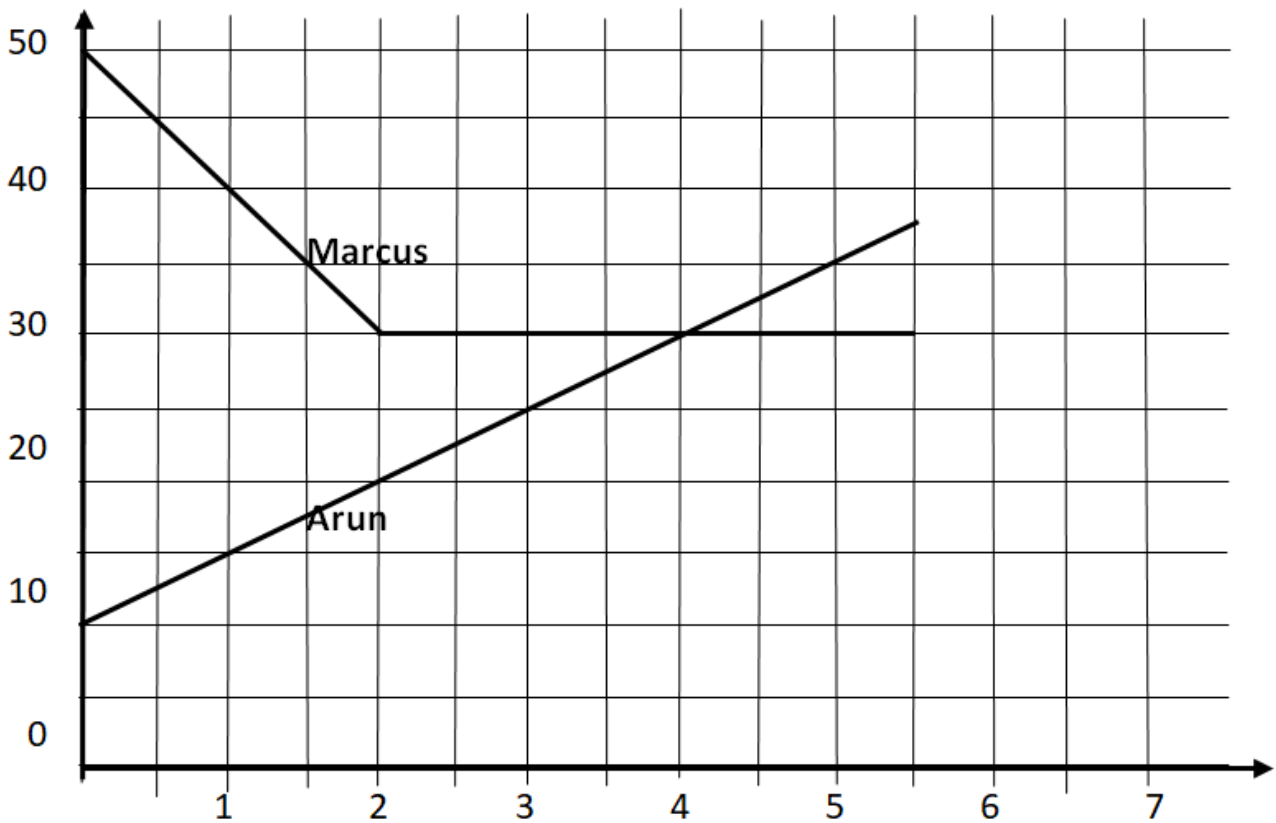
# HOLIDAY ASSIGNMENT

## MATHEMATICS

1. Given: (a)  $y = 4x - 3$  (b)  $2y + 6x + 5 = 0$  (c)  $3y - 9x = 3$ , find
  - i.  $y$  – *intercept*
  - ii.  $x$  – *intercept*
  - iii. gradient
  
2. Given  $y = 2x + 1$ , the values of  $x$  ranges from  $-3$  to  $+3$ .
  - i. Show the table of values of  $x$  and  $y$
  - ii. State the coordinate of  $x$ -intercept of the function
  - iii. State the coordinate of  $y$ -intercept of the function
  - iv. find  $y$ , when  $x = 1.5$
  
3. Given the sequence (a)  $-19, -15, -11, -7, \dots$  (b)  $5, -2, -9, \dots$ 
  - i. Find the  $n$ th term
  - ii. Find the 10th term
  
4. Arun and Marcus are walking along the same path but in different directions. The graph shows how far they are from home.
  - a. How far from home is each person when they start walking?
  - b. How far does Arun walk in 5 hours?
  - c. Arun is  $y$  km from home after  $x$  hours. Write an equation for the line that shows Arun's journey.
  - d. Describe Marcus's journey.  
Give as much details as you can
  - e. The point where the lines cross indicate what?

# HOLIDAY ASSIGNMENT

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## ENGLISH LANGUAGE

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Checkpoint Workbook, Page 76 – 84.

## BASIC SCIENCE

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Cambridge Lower Secondary Science Workbook 8 by Mary Jones et al, page 115 number 1 – 3, page 116 number 1 – 3.

# HOLIDAY ASSIGNMENT

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## BASIC TECHNOLOGY

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1. a. State any three (3) properties of a Trapezoid.  
b. Differentiate between a Concave Polygon and a Convex Polygon.
2. Using general method, construct a hexagon of sides  $45mm$ .
3. State any two (2) differences between a Pump and a Turbine.

## BUSINESS STUDIES

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1. State any five (5) factors to be considered before choosing any type of transport.
2. State five (5) types/kinds of Telephone Services available in Nigeria.

## NATIONAL VALUE EDUCATION

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1. Define Constitution.
2. Explain four (4) types of constitution.
3. State four (4) importance of constitution.