The Ambassadors College, Ota

GRADE 8 (HONOURS)

First Term Holiday Assignment

HOLIDAY ASSIGNMENT

2025/2026 Academic Session

Name: _____

MATHEMATICS

Below were the top 10 most challenging questions from your first term examination

1. A dealer sold two cameras for ₦60000 each. On one, he gained 20% and the other, he lost 20%. Find the overall profit or loss percentage.

2. Which of the following lines is parallel to the line $y = 4x - 9$?

   (a) $y = \frac{1}{4}x + 2$ (b) $y = 9x - 4$ (c) $y = -4x + 1$

   (d) $y = 4x + 10$ (e) $y = 4.1x + 10$

3. How many prime numbers are there between 50 and 100?

4. Find 70% of 265kg and leave your answer in 1000gramme.

5. Indicate the first three integers x that satisfy the inequality 2x+1>-10

6. By selling an article for ₦45.00 a man makes a profit of 8%, for how much should he sold it in order to make a profit of 32%.

7. A cone has a total surface area of 792 cm². If its radius is 14 cm, what is its slant height? (Use π = 22/7)

8. Which of the following values is not the solution to the compound inequality $3 \leq 2x + 1 < 5$?

   (a) -2 (b) 0   (c) 2   (d) -1 (e) all the above

9. A solid cylinder of height 24 cm and radius 7 cm is melted and recast into identical solid cones of radius 7 cm and height 12 cm. How many such cones can be made?

10. A streaming service charges a flat fee of $5 plus $0.50 per movie rented. Which part of the linear equation C = 0.50m + 5 represents the cost per movie?

   (a) The slope   (b) The y-intercept   (c) The variable C

   (d) The variable m   (e) The variable y

ENGLISH LANGUAGE

Prose text: Somayina _ The Smart Orphan by Chigbo Ugwuoke

1. State at least three major characters in the text.

2. State at least three settings embedded in the text.

3. What caused Uncle Spikes' dislike for Somayina?

4. Narrate what transpired when Somayina asked for direction on the road?

5. Summarize Lamido's benefits from Somayina's friendship.

BASIC SCIENCE

PHYSICS

1. A girl cycles to meet a friend. The distance-time graph for her journey from start to finish is shown in Fig. 5.1
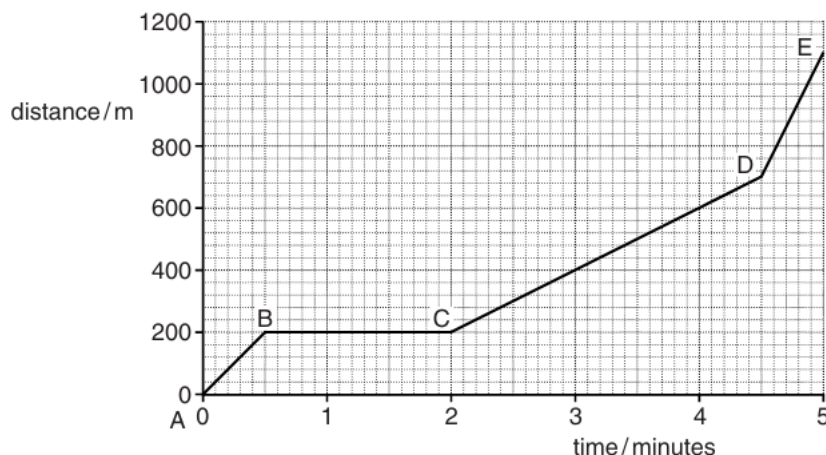

Fig. 5.1

(a) How far does the girl travel from start to finish?

(b) Describe the motion of the girl between points B and C.

(c) Which section of the graph shows

    (i) the part of the girl's journey that involves cycling up a hill 500 m long, between .... and ....

    (ii) the girl traveling at the fastest speed? between .... and ....

(d) Calculate her average speed, in m / s, for the whole journey

2. An electric train is initially at rest at a railway station. The motor causes a constant force of 360 000 N to act on the train and the train begins to move.

(a) State the form of energy gained by the train as it begins to move.

(b) The train travels a distance of 4.0 km along a straight, horizontal track.

    (i) Calculate the work done on the train during this part of the journey

    (ii) The mass of the train is 450 000 kg. Calculate the maximum possible speed of the train at the end of the first 4.0 km of the journey

    (iii) In practice, the speed of the train is much less than the value calculated in

    (iv) Suggest one reason why this is the case

(c)   After traveling 4.0 km, the train reaches its maximum speed. It continues at this constant speed on the next section of the track where the track follows a curve which is part of a circle. State the direction of the resultant force on the train as it follows the curved path.

CHEMISTRY
Cambridge lower checkpoint science workbook 8, page 91-95.

BIOLOGY
Cambridge Science Workbook 8, pages 22 and 23, Exercise 1.5A and Exercise 1.5B.

BASIC TECHNOLOGY

1.   a.   State five (5) metal work machines that you know
      b.   Explain the function of each machine mentioned in 1(a)
2   Construct a triangle PQR such that PQ = 50mm, QR = 70mm and PR = 45mm. Circumscribe PQR.

BUSINESS STUDIES

1. Explain the term cheque
2. Mention 10 commercial banks in Nigeria showing their year of establishment and CEOs (in a tabular form)

NATIONAL VALUE EDUCATION

1. Define the meaning of the Rule of Law
2. State A.V Dicey three principles of the rule of law

COMPUTER STUDIES

1. Define System software
2. Mention any FIVE examples of system software
3. Give Two definitions for operating system
4. Mention FIVE examples of operating system