

The Ambassadors College, Ota

GRADE 8

Second Term

Mid - Term Holiday Assignment

HOLIDAY ASSIGNMENT

2023/2024 Academic Session

Name: _____

MATHEMATICS

Use $\frac{22}{7}$ for π

1. Calculate the volume of a cylindrical steel bar which is 8cm long and 3.5cm in diameter.
2. Calculate the total surface area of a solid cone of slant height 10cm and base diameter of 42cm
3. A cone has a height of 24cm and radius of 7cm. find
 - i. Slant height
 - ii. Total surface area
 - iii. Curved surface area
 - iv. Volume
4. Find the total surface area of a cylindrical container open at one end, given the radius as 14cm and height as 3.5cm
5. A plane flies 200km on a bearing 032° . It then flies 350km on a bearing 275° .
 - a. Find the bearing and distance of the plane from its starting point.
 - b. Find how far north and how far west the plane is from its starting point.

ENGLISH LANGUAGE

Checkpoint (English) Workbook 8 by Graham Elsdon,
Pages 47 – 50.

BASIC SCIENCE

Cambridge Lower Secondary Science Workbook 8 by Mary Jones et al, pages 55 & 56, no. 1 – 3; page 57, no 1 – 4.

BASIC TECHNOLOGY

1. Write five (5) applications each of:
 - a. A belt drive.
 - b. Chain drive.
2. State five (5) advantages and five (5) disadvantages of chain drive.
3. Construct a regular heptagon of sides $60mm$.

BUSINESS STUDIES

Prepare two column cashbook.

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Exercise I and Exercise II.

NATIONAL VALUE EDUCATION

1. Define illiteracy and poverty.
2. Explain four (4) causes of illiteracy.
3. State four (4) consequences of poverty.