**ELIMU254 TOPICAL REVISION**

Kenya CBC | Junior School | Grade 9

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|---|---|---|---|
| **Name** | | **Class** | |
| **School** | | **Year** | |

# TOPICAL REVISION QUESTIONS

## GRADE 9: ALL SUBJECTS, ALL STRANDS

1349 questions in 193 exercises, with all the answers at the back

### HOW TO USE THIS BOOK

1. Each subject follows the KICD curriculum design strand by strand. There is one exercise for every sub-strand, in the order it is taught.
2. Do an exercise after the sub-strand is taught, for revision before a test, or as homework and holiday work.
3. Answer in the spaces provided. For a multiple-choice question, circle the letter (A, B, C or D) of the correct answer.
4. The marks for each question are shown in brackets. Show your working where a question needs it.
5. Do the Religious Education section for your own religion.
6. The answers for every exercise are at the back of the book, subject by subject, for the teacher or parent to mark.

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# MATHEMATICS

Revision questions

## NUMBERS

### Exercise 1: Integers (16 marks)

**1.** (-7) - (-12) = (1 mark)

**A** (-19) **B** 5

**C** (-5) **D** 19

**2.** (-48) ÷ 6 × (-2) = (1 mark)

**A** (-16) **B** 4

**C** (-4) **D** 16

**3.** At 6 a.m. it is (-5) °C. By noon it is 9 °C. The rise is: (1 mark)

**A** 14 °C **B** 4 °C

**C** (-14) °C **D** 45 °C

**4.** Work out:

**(a)** (-8) + 15 - (-6) (1 mark)

**(b)** (-4) × (-5) × (-2) (1 mark)

**(c)** (-36) ÷ 4 - (-3) × 5 (2 marks)

**5.** The temperature in Nairobi is 18 °C and inside a freezer it is (-12) °C. Find the difference in temperature. (2 marks)

**6.** A diver is at (-24) m. She rises 9 m and then goes down 15 m. Where is she now? (2 marks)

**7.** A shopkeeper made a loss of 450 shillings on Monday, a profit of 1,200 shillings on Tuesday and a loss of 300 shillings on Wednesday. Using integers, find the overall result. (2 marks)

**CHALLENGE: harder questions to stretch the best learners**

**8.** Work out -12 ÷ (-3) × 2 - (-5) × (-2). (1 mark)

**A** -2 **B** 18

**C** -18 **D** 2

**9.** A diver is 18 m below the surface. She rises 7 m a minute for 2 minutes, then dives down 11 m. How far below the surface is she now? (2 marks)

**Exercise 2: Cubes and cube roots (18 marks)**

**1.** The cube of 0.3 is: (1 mark)

**A** 0.9 **B** 0.09

**C** 0.027 **D** 0.27

**2.** The cube root of 216 is: (1 mark)

**A** 6 **B** 8

**C** 36 **D** 72

**3.** The cube root of 50 lies between: (1 mark)

**A** 2 and 3 **B** 4 and 5

**C** 5 and 6 **D** 3 and 4

**4.** Work out (a) $1.5^3$ (b) $(-0.2)^3$ (2 marks)

**5.** Use prime factors to find the cube root of 3,375. (3 marks)

**6.** A cube has a volume of 1,728 $cm^3$. Find (a) the length of one edge (b) its total surface area. (3 marks)

**7.** A cube-shaped water tank has edges of 1.5 m. How many litres of water can it hold? (2 marks)