ELIMU254 TOPICAL REVISION

Kenya CBC | Junior School | Grade 7

Name		**Class**	
School		**Year**	

TOPICAL REVISION QUESTIONS

GRADE 7: MATHEMATICS: ALL STRANDS

200 questions in 18 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. The answers for every exercise are at the back of the book, subject by subject, for the teacher or parent to mark.

SUBJECTS IN THIS BOOK

Subject	Exercises	Questions
Mathematics	18	200

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MATHEMATICS

Revision questions

NUMBERS

Exercise 1: Whole Numbers (30 marks)

1. What is the total value of the digit 6 in 862,415,307? (1 mark)

A 60,000,000 **B** 6,000,000

C 600,000,000 **D** 6

2. Round 349,500,000 to the nearest hundred million. (1 mark)

A 350,000,000 **B** 300,000,000

C 400,000,000 **D** 349,000,000

3. Which list has prime numbers only? (1 mark)

A 2, 9, 11 **B** 1, 3, 5

C 2, 13, 29 **D** 3, 15, 17

4. The place value chart below shows a number.

Hundred millions	Ten millions	Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
4	0	7	2	5	9	0	3	6

Place value chart

(a) Write the number in symbols. (1 mark)

(b) What is the place value of the digit 5? (1 mark)

(c) What is the total value of the digit 7? (1 mark)

(d) Round the number to the nearest million. (1 mark)

(e) Round the number to the nearest hundred million. (1 mark)

5. A school paid a building contractor Ksh 3,450,600 by cheque.

(a) Write the amount in words as it should appear on the cheque. (2 marks)

(b) Write "two million, forty thousand and seventy shillings" in symbols. (1 mark)

6. Use the numbers 21, 29, 33, 38, 41, 45 and 50.

(a) List the even numbers. (1 mark)

(b) List the prime numbers. (2 marks)

(c) Achieng says that every odd number is a prime number. Use one number from the list to show that she is wrong. (1 mark)

7. A county store had 1,348,500 kg of fertiliser. It received 576,250 kg more. All the fertiliser was then shared equally among 25 wards.

(a) How many kilograms of fertiliser were in the store altogether? (2 marks)

(b) How many kilograms did each ward get? (2 marks)

8. Work out 4,800 ÷ (12 × 5) + 36 × 3 - 150. (3 marks)

9. Look at the number sequence 3, 7, 15, 31, ...

(a) Describe the rule of the sequence. (1 mark)

(b) Write the next two terms. (2 marks)

10. In a number game, start at 1,000 and subtract 125 each time. Write the first six terms. (2 marks)

CHALLENGE: harder questions to stretch the best learners

11. The digits 3, 0, 8, 5, 1 and 9 are each used once to make the SMALLEST possible 6-digit number. The number is (1 mark)

A 013,589 **B** 103,589

C 105,389 **D** 130,589

12. A number rounded to the nearest thousand is 46,000.

(a) What is the smallest whole number it could be? (1 mark)

(b) What is the largest whole number it could be? (1 mark)

Exercise 2: Factors (28 marks)

1. Which number is divisible by 9? (1 mark)

A 5,213 **B** 7,402

C 6,130 **D** 3,465

2. What is the GCD of 24 and 40? (1 mark)

A 8 **B** 4

C 120 **D** 2

3. What is the LCM of 8 and 12? (1 mark)

A 96 **B** 24

C 4 **D** 48

4. Use the divisibility tests to answer these questions about 7,920. Give a reason each time.

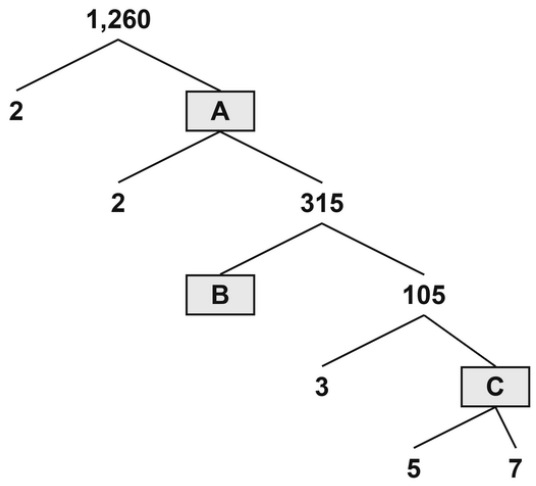
(a) Is 7,920 divisible by 9? (1 mark)

(b) Is 7,920 divisible by 8? (1 mark)

(c) Is 7,920 divisible by 11? (1 mark)

(d) Is 7,920 divisible by 6? (1 mark)

5. The factor tree below shows 1,260 broken into prime factors. Some numbers are missing.



Factor tree of 1,260

(a) Find the missing numbers A, B and C. (3 marks)

(b) Write 1,260 as a product of its prime factors. (1 mark)

6. Use the factor method.

(a) Find the GCD of 36, 60 and 84. (2 marks)

(b) Find the LCM of 12, 18 and 30. (2 marks)

7. Three school bells ring every 15 minutes, 20 minutes and 30 minutes. They ring together at 8:00 a.m. At what time will they next ring together? (3 marks)

8. A carpenter has three planks 180 cm, 240 cm and 300 cm long. He cuts them into pieces of the same length, as long as possible, with nothing left over.

(a) Find the length of each piece. (2 marks)

(b) How many pieces does he get altogether? (2 marks)

CHALLENGE: harder questions to stretch the best learners

9. Two school bells ring every 12 minutes and every 18 minutes. They ring together at 8:00 a.m. When do they next ring together AFTER 9:00 a.m.? (1 mark)

A 9:06 a.m. **B** 9:12 a.m.

C 9:36 a.m. **D** 10:12 a.m.

10. Find the smallest number which leaves a remainder of 3 when divided by 6, by 8 or by 10. (2 marks)

11. A rectangular room measures 4.2 m by 5.4 m. It is to be covered with the LARGEST possible square tiles, without cutting any tile.

(a) Find the length of the side of each tile in centimetres. (2 marks)

(b) How many tiles are needed? (1 mark)

Exercise 3: Fractions (24 marks)

1. Which fraction is the largest? (1 mark)

A 3/5 **B** 4/7

C 5/8 **D** 7/12

2. 2/3 ÷ 4/9 = ? (1 mark)

A 8/27 **B** 2/3

C 2¼ **D** 1½

3. What is ¾ of 1 1/3? (1 mark)

A 1 **B** 1 1/12

C ¾ **D** 2 1/12

4. Arrange ¾, 5/8, 7/12 and 2/3 in ascending order (smallest first). (2 marks)

5. A farmer had 8¼ bags of maize. He sold 3 2/3 bags and his family ate 1½ bags. How many bags were left? (3 marks)

6. Work out:

(a) 1 3/5 × 2¼ (2 marks)