



THE KENYA NATIONAL EXAMINATIONS COUNCIL

SCHOOL BASED ASSESSMENT

MATHEMATICS

Grade 4 - 2023

ADVANCE INSTRUCTIONS TO THE TEACHER

(for Regular Learners, learners with Physical Disability and Hearing Impairment)

Advance Instruction to the teacher for TASK 25.

1. Prepare the following cut outs in sufficient quantities for the learners:
 - (a) Circles
 - (b) Equilateral triangles
 - (c) Squares
2. Call one learner at a time and give the learner any one cut out at random.
3. Ask the learner to fold the cut out and show you a line of symmetry.
Score accordingly.
4. Once a cut out has been used, it should not be used again.

This paper has 8 printed pages.

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Turn over

MATHEMATICS Grade 4

Scoring Rubrics

Each question is awarded ONE mark.

Total marks is 25.

Question	Answer	Question	Answer
1.	Total value of digit 7 is 700	14.	$20\text{ m } 50\text{ cm} \div 5 = 4\text{ m } 10\text{ cm}$
2.	$42 \times 30 = 1260$ orange trees	15.	$(4 \times 60) + 30 = 270$ minutes
3.	Jared	16.	8 hours
4.	$3672 + 2045 = 5717$	17.	Business permit fees
5.	IX	18.	$6 + 6 + 6 + 6 = 24$ bricks
6.	sh 950	19.	$6 \times 8 = 48$ square units
7.	$5648 - 3271 = 2377$	20.	$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$ kg
8.	$4957 - 3674 = 1283$ seats	21.	$14 + 21 = 35$ litres
9.	$48 \div 3 = 16$ friends	22.	$y - 3$ oranges
10.	0.08	23.	He will face Class 4 Blue
11.	$\frac{4}{11}$	24.	Tuesday - 8 Friday - //
12.	1.35 m, 1.37 m, 1.53 m, 1.57 m	25.	Teacher to assess accordingly
13.	$800\text{ cm} + 20\text{ cm} = 820\text{ cm}$		

SCHOOL BASED ASSESSMENT 2023

GRADE 4

SCORING RUBRICS FOR MATHEMATICS

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
NUMBERS (12 questions) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12				
	Learner scores any 5 or 6 questions	Learner scores any 4 questions	Learner scores any 2 or 3 questions	Learner scores any 1 question
Whole numbers, Addition, Multiplication 1,2,3,4,5,6	<ul style="list-style-type: none"> • Writes Hindu Arabic numerals using Roman numerals up to ‘X’, and beyond, uses total value up to tens of thousands, identifies odd numbers effectively. • Adds up to two 4-digit numbers with double regrouping, multiplies up 	<ul style="list-style-type: none"> • Writes Hindu Arabic numerals using Roman numerals up to ‘X’, uses total value up to tens of thousands, identifies odd numbers correctly. • Adds up to two 4-digit numbers with double regrouping, multiplies up to a 2- digit number by a 2- digit number with regrouping and rounds off 	<ul style="list-style-type: none"> • Writes Hindu Arabic numerals using Roman numerals up to ‘X’, uses total value up to tens of thousands, identifies odd numbers with few errors. • Adds up to two 4-digit numbers with double regrouping, multiplies up to a 2- digit number by a 	<ul style="list-style-type: none"> • Writes Hindu Arabic numerals using Roman numerals up to ‘X’, uses total value up to tens of thousands, identifies odd numbers with many errors. • Adds up to two 4-digit numbers with double regrouping and rounds

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
	to a 2- digit number by a 2- digit number with regrouping and rounds off numbers to the nearest 10 systematically .	numbers to the nearest 10 correctly .	2- digit number with regrouping and rounds off numbers to the nearest 10 with few errors .	off numbers to the nearest 10 with difficulties . <ul style="list-style-type: none"> • Multiplies up to a 2- digit number by a 2- digit number with regrouping with many errors.
	Learner scores any 5 or 6 questions	Learner scores any 4 questions	Learner scores any 2 or 3 questions	Learner scores any 1 question
Subtraction, Division, Decimals, Fractions 7,8,9,10,11,12	<ul style="list-style-type: none"> • Subtracts up to 4-digit numbers with single regrouping systematically. • Divides up to a 2- digit number by a 1- digit number without a remainder, writes fractions as part of a group, identifies place value of 	<ul style="list-style-type: none"> • Subtracts up to 4-digit numbers with single regrouping correctly. • Divides up to a 2- digit number by a 1- digit number without a remainder, writes fractions as part of a group, identifies place value of decimals, orders decimals up to hundredths correctly. 	<ul style="list-style-type: none"> • Subtracts up to 4-digit numbers with single regrouping with few errors. • Divides up to a 2- digit number by a 1- digit number without a remainder, writes fractions as part of a group, identifies place value of 	<ul style="list-style-type: none"> • Subtracts up to 4-digit numbers with single regrouping with difficulties. • Divides up to a 2- digit number by a 1- digit number without a remainder, writes fractions as part of a group, identifies place

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
	decimals, orders decimals up to hundredths systematically.		decimals, orders decimals up to hundredths with few errors.	value of decimals, orders decimals up to hundredths with difficulties.
MEASUREMENT (9 questions) 13, 14, 15, 16, 17, 18, 19, 20, 21				
	Learner scores all the 5 questions	Learner scores any 4 or 3 questions	Learner scores any 2 questions	Learner scores any 1 question
Length, Time and money 13,14,15,16,17	<ul style="list-style-type: none"> Converts metres to centimetres, works out division involving metres and centimetres systematically. Converts units of time, works out time duration and identifies money that citizen pay to the county governments effectively. 	<ul style="list-style-type: none"> Converts metres to centimetres, works out division involving metres and centimetres correctly. Converts units of time, works out time duration and identifies money that citizen pay to the county governments accurately. 	<ul style="list-style-type: none"> Converts metres to centimetres, works out division involving metres and centimetres with few errors. Converts units of time, works out time duration and identifies money that citizen pay to the county governments with few errors. 	<ul style="list-style-type: none"> Converts metres to centimetres, works out division involving metres and centimetres with many errors. Converts units of time, works out time duration and identifies money that citizen pay to the county governments with many errors.

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
	Learner scores all the 4 questions	Learner scores any 3 questions	Learner scores any 2 question	Learner scores any 1 question
Area, Volume, Capacity and Mass 18,19,20,21	Calculates area of squares as a product of number of rows and columns, works out volume of cubes, measures capacity in $\frac{1}{4}$ litre and adds capacity involving litres in real life situations systematically .	Calculates area of squares as a product of number of rows and columns, works out volume of cubes, measures capacity in $\frac{1}{4}$ litre and adds capacity involving litres in real life situations correctly .	Calculates area of squares as a product of number of rows and columns, works out volume of cubes, measures capacity in $\frac{1}{4}$ litre and adds capacity involving litres in real life situations with few errors .	Calculates area of squares as a product of number of rows and columns, works out volume of cubes, measures capacity in $\frac{1}{4}$ litre and adds capacity involving litres in real life situations with difficulties .

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
GEOMETRY, DATA HANDLING AND ALGEBRA (4 questions) 22, 23, 24, 25				
Position and direction, Angles, 2-D Shapes, Data and Use of letters, 22, 23,24, 25	Learner scores all the 4 questions	Learner scores any 3 questions	Learner scores any 2 questions	Learner scores any 1 question
	Identifies different types of angles in the environment, quarter turns in the environment and lines of symmetry, represents data using a frequency table and forms algebraic expressions effectively .	Identifies different types of angles in the environment, quarter turns in the environment and lines of symmetry, represents data using a frequency table and forms algebraic expressions correctly .	Performs any 2 of the following; identifies different types of angles in the environment, quarter turns in the environment and lines of symmetry, represents data using a frequency table and forms algebraic expressions with few errors .	Performs any 1 of the following; identifies different types of angles in the environment, quarter turns in the environment and lines of symmetry, represents data using a frequency table and forms algebraic expressions with difficulties .

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MATHEMATICS SCORING SHEET GRADE 4**

S.No	Name of Learner	Sub strand Whole numbers, addition, multiplication Questions 1,2,3,4,5,6	Sub strand Subtraction, division, fractions, decimals Questions 7,8,9,10,11,12	Sub strand Length, time, money Questions 13,14,15,16,17	Sub strand Area, mass, volume, capacity Questions 18,19,20,21	Sub strand Position and direction, angles, 2-D shapes, data, use of letters Questions 22,23,24,25	Comment
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