



THE KENYA NATIONAL EXAMINATIONS COUNCIL

**SCHOOL BASED ASSESSMENT
MATHEMATICS**

Grade 5 - 2024

ADVANCE INSTRUCTIONS TO THE TEACHER

Advance Instruction to the teacher on the TASK 25

25. The teacher to prepare sufficient unit angles of 20° . Provide each learner with 5 unit angle cut outs.

Draw several angles of 60° on a manilla paper. Observe the skill and accuracy as the learner measures the angle drawn using the unit angle cut outs and award the correct score accordingly.

This paper has 9 printed pages

Turn over

Grade 5 - Scoring Rubrics
Each question is awarded ONE mark.

Total marks is 25.

Question	Answer	Qn	Answer																		
1.	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Hundred thousands</td> <td>Ten thousands</td> <td>Thousands</td> <td>Hundreds</td> <td>Tens</td> <td>Ones</td> </tr> <tr> <td></td> <td>6</td> <td>3</td> <td>0</td> <td>9</td> <td>5</td> </tr> </table>	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones		6	3	0	9	5								
Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones																
	6	3	0	9	5																
2.	Seven thousand eight hundred and thirty five.																				
3.	<p>L.C.M of 30 and 40 is</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">2</td> <td style="padding-right: 10px;">30</td> <td>40</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">2</td> <td style="padding-right: 10px;">15,</td> <td>20</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">2</td> <td style="padding-right: 10px;">15,</td> <td>10</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">3</td> <td style="padding-right: 10px;">15,</td> <td>5</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">5</td> <td style="padding-right: 10px;">5,</td> <td>5</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-right: 10px;">1,</td> <td>1</td> </tr> </table> <p>L.C.M is $2 \times 2 \times 2 \times 3 \times 5 = 120$</p>	2	30	40	2	15,	20	2	15,	10	3	15,	5	5	5,	5		1,	1		
2	30	40																			
2	15,	20																			
2	15,	10																			
3	15,	5																			
5	5,	5																			
	1,	1																			
4.	6500 and 4800	9.	$816 \div 12 = 68$ learners																		
5.	$242 \times 87 = 21054$ trees	10.	$500\text{ l} - 134\text{ l } 460\text{ ml} = 365\text{ l } 540\text{ ml}$																		
6.	42.534 kg, 42.453 kg, 42.435 kg and 42.345 kg	11.	Group A																		
7.	$63924 - 32509 = 31415$ kg	12.	$400 \times 4 = 1600\text{ m}$ $= 1\text{ km } 600\text{ m}$																		
8.	$\frac{1}{4} + \frac{1}{2} = \frac{3}{4}$ kg	13.	$43\text{ km } 525\text{ m} + 21\text{ km } 490\text{ m}$ $= 65\text{ km } 15\text{ m}$																		

Question	Answer		
14.	$(4 \times 60) + 15 = 255$ seconds		
15.	$(42 \times 1000) + 570 = 42570$ metres		
16.	-Deposit of money and withdrawals -Giving loans and custody of items.		
17.	$1204 \div 28 = 43$ cm		
18.	$40 \times 50 \times 30 = 60\,000$ cm ³		
19.	$450\text{ kg } 720\text{ g} \div 5 = 90\text{ kg } 144\text{ g}$		
20.	$210 \times 1000 = 210\,000$ millilitres		
21.	$24\text{ kg } 720\text{ g} \times 8 = 197\text{ kg } 760\text{ g}$		
22.	$x + 8 = 20$		
23.	(a) and (b) are parallel lines		
24.	Pyramid		
25.	3 units		

SCHOOL BASED ASSESSMENT 2024

GRADE 5

SCORING RUBRICS FOR MATHEMATICS

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
NUMBERS (11 questions) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11				
	Learner scores all the 6 questions	Learner scores any 4 or 5 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 numbers in words up to 100,000 and beyond, applies Greatest Common Divisor (GCD), Least Common Divisor (LCM) and divisibility test of 5 in real life situations effectively. • Adds up to two 6-digit numbers with double regrouping, multiplies up to a 3- digit number by a 	<ul style="list-style-type: none"> • Writes numbers in words up to 100,000, applies Greatest Common Divisor (GCD), Least Common Divisor (LCM) and divisibility test of 5 in real life situations correctly. • Adds up to two 6-digit numbers with double regrouping, multiplies up to a 3- digit number by a 2- digit number with regrouping correctly. 	<ul style="list-style-type: none"> • Writes numbers in words up to 100,000, applies Greatest Common Divisor (GCD), Least Common Divisor (LCM) and divisibility test of 5 in real life situations with few errors. • Adds up to two 6-digit numbers with double regrouping, multiplies up to a 3- digit number by a 	<ul style="list-style-type: none"> • Writes numbers in words up to 100,000, applies Greatest Common Divisor (GCD), Least Common Divisor (LCM) and divisibility test of 5 in real life situations with many errors. • Adds up to two 6-digit numbers with double

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
	2- digit number with regrouping systematically .		2- digit number with regrouping with few errors .	regrouping, multiplies up to a 3- digit number by a 2- digit number with regrouping with many errors .
	Learner scores all the 5 questions	Learner scores any 4 or 3 questions	Learner scores any 2 questions	Learner scores any 1 question
Subtraction, Division, Fractions, Decimals 7,8,9,10,11	<ul style="list-style-type: none"> Subtracts up to 6-digit numbers with single regrouping, fractions with one renaming, decimals up to thousandths and orders fractions systematically. Divides up to a 3- digit number by a 2- digit number without a remainder systematically. 	<ul style="list-style-type: none"> Subtracts up to 6-digit numbers with single regrouping, fractions with one renaming, decimals up to thousandths and orders fractions correctly. Divides up to a 3- digit number by a 2- digit number without a remainder correctly. 	<ul style="list-style-type: none"> Subtracts up to 6-digit numbers with single regrouping, fractions with one renaming, decimals up to thousandths and orders fractions with few errors. Divides up to a 3- digit number by a 2- digit number without a remainder with few errors. 	<ul style="list-style-type: none"> Subtracts up to 6-digit numbers with single regrouping, fractions with one renaming, decimals up to thousandths and orders fractions with difficulties. Divides up to a 3- digit number by a 2- digit number without a remainder with difficulties.

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
MEASUREMENT (10 questions) 12, 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 12,13,14,15,16	<ul style="list-style-type: none"> Converts kilometres to metres, works out subtraction of metres and kilometres, multiplies kilometres by whole numbers in real life situations systematically. Adds minutes and seconds with conversion, works out savings involving money in real life situations systematically. 	<ul style="list-style-type: none"> Converts kilometres to metres, works out subtraction of metres and kilometres, multiplies kilometres by whole numbers in real life situations correctly. Adds minutes and seconds with conversion, works out savings involving money in real life situations correctly. 	<ul style="list-style-type: none"> Converts kilometres to metres, works out subtraction of metres and kilometres, multiplies kilometres by whole numbers in real life situations with few errors. Adds minutes and seconds with conversion, works out savings involving money in real life situations with few errors. 	<ul style="list-style-type: none"> Converts kilometres to metres, works out subtraction of metres and kilometres, multiplies kilometres by whole numbers in real life situations with many errors. Adds minutes and seconds with conversion, calculates savings involving money in real life situations with many errors.

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
	Learner scores all the 5 questions	Learner scores any 4 or 3 questions	Learner scores any 2 questions	Learner scores any 1 question
Area, Volume, Capacity and Mass 17,18,19,20,21	<ul style="list-style-type: none"> • Converts litres to millilitres, kilograms to grams in real life situations effectively. • Divides litres and millilitres, grams and kilograms by whole numbers in real life situations systematically. • Works out area of rectangles in square centimetres (cm²), volume of cubes in cubic centimetres (cm³) in different situations systematically. 	<ul style="list-style-type: none"> • Converts litres to millilitres, kilograms to grams in real life situations correctly. • Divides litres and millilitres, grams and kilograms by whole numbers in real life situations correctly. • Works out area of rectangles in square centimetres (cm²), volume of cubes in cubic centimetres (cm³) in different situations correctly. 	<ul style="list-style-type: none"> • Converts litres to millilitres, kilograms to grams in real life situations with few errors. • Divides litres and millilitres, grams and kilograms by whole numbers in real life situations with few errors. • Works out area of rectangles in square centimetres (cm²), volume of cubes in cubic centimetres (cm³) in different situations with few errors. 	<ul style="list-style-type: none"> • Converts litres to millilitres, kilograms to grams in real life situations with difficulties. • Divides litres and millilitres, grams and kilograms by whole numbers in real life situations with difficulties. • Works out area of rectangles in square centimetres (cm²), volume of cubes in cubic centimetres (cm³) in different situations with difficulties.

STRAND/sub strand	EXCEEDS EXPECTATION (4)	MEETS EXPECTATION (3)	APPROACHES EXPECTATION (2)	BELOW EXPECTATION (1)
GEOMETRY, DATA AND ALGEBRA (4 questions) 22, 23, 24, 25				
Lines, Angles, 3-D Shapes, Data representation and Simple equation 22,23,24,25	Learner scores all the 4 questions	Learner scores any 3 questions	Learner scores any 2 question	Learner scores any 1 question
	<ul style="list-style-type: none"> • Identifies perpendicular lines, measures angles using a unit angles, interprets data represented through piling in real life situations effectively. • Forms simple equations with one unknown in real life situations systematically. 	<ul style="list-style-type: none"> • Draws perpendicular lines, measures angles in degrees, interprets data represented through piling in real life situations accurately. • Forms simple equations with one unknown in real life situations accurately. 	Performs any 2 of the following; Draws perpendicular lines, measures angles in degrees, interprets data represented through piling, forms simple equations with one unknown in real life situations with few errors .	Performs any 1 of the following; Draws perpendicular lines, measures angles in degrees, interprets data represented through piling, forms simple equations with one unknown in real life situations with difficulties .

MATHEMATICS SCORING SHEET GRADE 5

S.N	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	Sub strand Length, time, money Questions 12,13,14,15,16	Sub strand Area, volume, capacity, mass Questions 17,18, 19,20,21	Sub strand Lines, angles, 3-D shapes, data representation, simple equation Questions 22,23,24,25	Comment
1							
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