



THE KENYA NATIONAL EXAMINATIONS COUNCIL

SCHOOL BASED ASSESSMENT

MATHEMATICS

(For Regular learners, learners with Physical Impairment and Hearing Impairment)

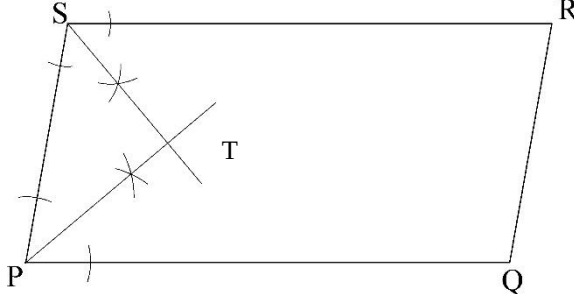
Grade 7 – 2024

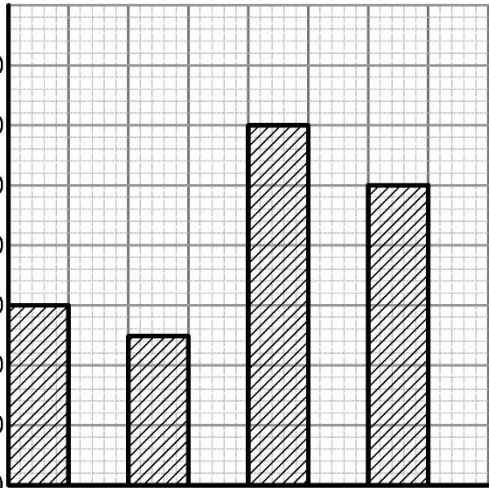
Scoring Guide

This Scoring guide consists of 8 printed pages.

Question no.	Working	Marks	Comment
1.	Two million forty five thousand three hundred seventy two	1	
		1	
2.	The prime numbers are 2, 7 and 11	1	
		1	
		2	
3.	The LCM of 15 and 18 $15 = 3 \times 5$ $18 = 2 \times 3^2$ $LCM = 2 \times 3^2 \times 5 = 90$ Maximum number of oranges = 90	1	For factors
		1	
		1	
		3	
4.	Fraction of book read in one day = $\frac{3}{4} \div 4$ $= \frac{3}{16}$	1	
		1	
		2	
5.	Total value of digit 4 = 0.4 Total value of digit 8 = 0.08 Difference = $0.4 - 0.08$ $= 0.32$	1	
		1	
		1	
		3	
6.	Number of chairs in each row = $\sqrt{324}$ $= 18$ chairs	1	
		1	
		2	
7.	$c + p + (2c + \frac{1}{2}p)$ $= 3c + 1\frac{1}{2}p$	1	
		1	
		2	

8.	Let the number of books Amina had be x Ali's books = $x + 6$ $2x + 6 = 24$ $x = 9$	1 1 2	
9.	Akinyi's height: $H_A > 1.2m$ Nzomo's height: $H_N \leq 1.5m$	1 1 2	
10.	Length of longest side = $\sqrt{200^2 + 150^2}$ $= 250m$	1 1 2	
11.	Circumference of wheel = $\frac{22}{7} \times 2 \times 28$ $= 176 \text{ cm}$ Distance covered = 176×100 $= 17600 \text{ cm or } 176m$	1 1 1 3	
12.	Area grazed on = Area of trapezium – area of pond $= \frac{1}{2} \times 12(35 + 55) - \pi \times 5^2$ $= 461.46 \text{ m}^2$	 1,1 1 3	
13.	Volume of packet = $6 \times 10 \times 18$ $= 1080 \text{ cm}^3$ Capacity of packet = $\frac{1080}{1000}$ $= 1.08 \text{ litres}$	1 1 1 3	
14.	2 minutes = $2 \times 60 \text{ second}$ Kiptoo's speed = $\frac{420}{2 \times 60}$ $= 3.5 \text{ m/s}$	1 1 1 3	Conversion of minutes to seconds

15.	Time in $^{\circ}C = 355 - 273 = 82^{\circ}C$	1	
16.	Uganda letter costs Sh 1105 South Africa letter cost sh 3115 Total cost = $1105 + 3115$ = sh 4200	1	
		1	
		1	
		3	
17.	Loss = $2\,300\,000 - 1\,955\,000 = \text{sh } 345\,000$ Percentage loss = $\frac{345000}{2\,300\,00} \times 100$ = 15%	1	
		1	
		1	
		3	
18.	Size of exterior angle = $180 - 120 = 60^{\circ}$ Number of sides of polygon = $\frac{360}{60}$ = 6	1	
		1	
		1	
		3	
19.	 Angle PTS = 90°	1	Bisecting angle SPQ
		1	Identifying point T
		1	
		3	

20.	No of Tourist in 1000  Towns <table><thead><tr><th>Town</th><th>No of Tourist in 1000</th></tr></thead><tbody><tr><td>Mombasa</td><td>30</td></tr><tr><td>Malindi</td><td>25</td></tr><tr><td>Nairobi</td><td>60</td></tr><tr><td>Naivasha</td><td>50</td></tr></tbody></table>	Town	No of Tourist in 1000	Mombasa	30	Malindi	25	Nairobi	60	Naivasha	50	1 2 3	Suitable scale used All bars correctly drawn and labelled. (Allow 1 for 2 bars correctly drawn)
Town	No of Tourist in 1000												
Mombasa	30												
Malindi	25												
Nairobi	60												
Naivasha	50												

SCHOOL BASED ASSESSMENT 2023**GRADE 7****MATHEMATICS SCORING RUBRICS**

STRANDS/Sub strands	EXCEEDS EXPECTATION	MEETS EXPECTATION	APPROACHES EXPECTATION	BELOW EXPECTATION
NUMBERS: Whole numbers, Factors, Fractions, Decimals, Squares and Square roots Question nos. 1,2,3,4,5 and 6 (13 marks)	Learner scores 11 - 13 marks	Learner scores 7 – 10 marks	Learner scores 3 – 6 marks	Learner scores 0 – 2 marks
ALGEBRA: Algebraic Expressions, linear Equations, Linear Inequalities Question nos. 7,8,9 (6 marks)	Learner scores 6 marks	Learner scores 3 - 5 marks	Learner scores 1- 2 marks	Learner scores 0 mark
MEASUREMENTS: Pythagorean Relationship, Length, area, Volume and Capacity, Time, Distance and Speed, Temperature, and money Question Nos. 10, 11, 12, 13, 14, 15, 16, 17. (21 marks)	Learner scores 17 - 21 marks	Learner scores 11 - 16 marks	Learner scores 6 – 10 marks	Learner scores 0 - 5 marks
GEOMETRY, Angles, Geometric constructions. Question nos. 18 and 19 (7 marks)	Learner scores 7 marks	Learner scores 4 - 6 marks	Learner scores 2 -3 marks	Learner scores 0 – 1 mark
DATA HANDLING AND PROBABILITY: Data Handling Question no. 20 (3 marks)	Learner scores 3 marks	Learner scores 2 marks	Learner scores 1 marks	Learner scores 0 mark

THE KENYA NATIONAL EXAMINATIONS COUNCIL
MATHEMATICS SCORING SHEET FOR GRADE 7

S.N o	Name of Learner	NUMBERS: Whole numbers, Factors, Fractions, Decimals, Squares and Square roots Question nos. 1,2,3,4,5 and 6 (13 marks)	ALGEBRA: Algebraic Expressions, linear Equations, Linear Inequalities Question nos. 7,8,9 (6 marks)	MEASUREM ENTS: Pythagorean Relationship, Length, area, Volume and Capacity, Time, Distance and Speed, Temperature and Money Question Nos. 10, 11, 12, 13, 14, 15, 16, 17. (21 marks)	GEOMETRY: Angles, Geometric constructions. Question nos. 18 and 19 (7 marks)	DATA HANDLING AND PROBABILITY: Data Handling Question no. 20 (3 marks)	Comment
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