

SCHOOL BASED ASSESSMENT 2026

GRADE 7

MATHEMATICS SCORING GUIDE FOR VI

S/NO	WORKING	MARKS	REMARKS
1	a) Three hundred and eighty-two million four hundred and fifty-nine thousand. b) 400 000	B1	Write correctly in words
		A1	Correct value
		2	
2	$6 \times 8 = 48$ $48 - 10 = 38$	M1	Multiplication
		A1	Subtraction
		2	
3	a) $48 = 2^4 \times 3$ $60 = 2^2 \times 3 \times 5$ $GCD = 2^2 \times 3$ b) $48 \div 12 = 4$	M1	Factors
		M1	GCD of 48 and 60
		A1	Answers
		3	
4	$24 \div \frac{1}{4}$ $24 \times \frac{4}{1}$ $= 96$	M 1	Division
		A1	Reciprocal
		2	

5	$34.8 \div 2.32$ $\frac{348}{10} \times \frac{100}{232}$ $= 15$	M1	Division
		M1	Fraction and the reciprocal
		A1	
		3	
6	$\sqrt{40.96}$ $\frac{\sqrt{4096}}{\sqrt{100}}$ $\frac{64}{10}$ $= 6.4$	M1	Square root
		M1	Division
		A1	
		3	
7	$3x + 2 + 2x + 4 + 3x + 2 + 2x + 4$ $10x + 12$ $2 (5x + 2)$	M1	Sum
		M1	Factorization
		A1	Simplifying
		3	

8	Let the son's present age be x Father's age = $x + 18$ $x + x + 18 = 46$ $2x = 46 - 18$ $2x = 28$ $x = 14$	M1	Sum of present age
		A1	Son's age
		2	
9	Let the pupils going for the trip be x $x \geq 20$ $x \leq 45$	B1	Inequality 1
		B1	Inequality 2
		2	
10	$x = \sqrt{100^2 - 4^2}$ $= 9.2$	M1	Length of x
		A1	
		2	
11	$\frac{1}{2} \times \frac{22}{7} \times 7$ $= 11 \text{ cm}$ $7.5 + 7.5 + 11$ $= 26 \text{ cm}$	M1	Length of the circular part
		A1	Total length
		2	

12	$42 \times 28 = 1176 \text{ m}^2$ $\frac{1}{2} \times \frac{22}{7} \times 14 \times 14 \times 2 = 616 \text{ m}^2$ $1176 + 616 = 1792 \text{ m}^2$	M1	Area of the rectangular part
		M1	Area of semi-circles
		A1	Total area
		3	
13	$\frac{3}{4} \times \frac{22}{7} \times 3.5 \times 3.5 \times 10$ $= 288.75 \text{ m}^3$ 288.75×1000 $= 288\,750 \text{ litres}$	M1	Volume of water in the tank
		M1	Capacity of water in the tank
		A1	Express in litres
		3	
14	$90296 - 90176$ $= 120 \text{ km}$ $speed = \frac{distance}{time}$ $= \frac{120}{\frac{3}{2}}$ $120 \times \frac{2}{3}$ $= 80 \text{ km/h}$	M1	Distance covered
		M1	Speed of the car
		A1	Speed in km/h
		3	

15	$336 - 273$ $= 63^{\circ}C$	M1	Correct conversion
		1	
16	$\frac{20}{100} \times 9000$ $= 1800$ $9000 + 1800$ $= 10\,800$	M1	Profit
		A1	Selling price
		2	
17	$\frac{8000}{40000} \times 100\%$ $= 20\%$	M1	% commission
		A1	Answer
		2	
18	$n - 30 + n + 2n + 10 = 180$ $4n - 20 = 180$ $4n = 200$ $n = 50^{\circ}$ $100^{\circ} - 20^{\circ} = 90^{\circ}$	M1	Total sum of angles in a triangle
		M1	Value on n
		A1	Difference
		3	

19	$BC = 4.2\text{ cm} \pm 0.1$ $\angle ABC = 45^0 \pm 1^0$ $\angle CAB = 30^0 \pm 1^0$ Scalene triangle			B1 B1 B1 B1	Correct measure																		
				4																			
20	<table><tr><th>Mass</th><th>Tally</th><th>No. of learners</th></tr><tr><td>30</td><td>/</td><td>1</td></tr><tr><td>35</td><td>///</td><td>3</td></tr><tr><td>40</td><td>~~///~~ /</td><td>6</td></tr><tr><td>45</td><td>//</td><td>2</td></tr><tr><td>50</td><td>//</td><td>2</td></tr></table>			Mass	Tally	No. of learners	30	/	1	35	///	3	40	~~///~~ /	6	45	//	2	50	//	2	B1	Mass
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SCHOOL BASED ASSESSMENT 2026**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 (15 marks)	Learner scores 12 -15 marks	Learner scores 7 – 11 marks	Learner scores 4 – 6 marks	Learner scores 0 – 3 marks
ALGEBRA: Algebraic Expressions, linear Equations, Linear Inequalities Question nos. 7,8,9 (7 marks)	Learner scores 6 –7 marks	Learner scores 4 - 5 marks	Learner scores 2 - 3 marks	Learner scores 0 -1 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. (18 marks)	Learner scores 15 -18 marks	Learner scores 10 - 14 marks	Learner scores 5 – 9 marks	Learner scores 0 - 4 marks
GEOMETRY, Angles, Geometric constructions. Question nos.18 and 19 (7 marks)	Learner scores 6 -7 marks	Learner scores 4 -5 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 mark	Learner scores 0 mark

THE KENYA NATIONAL EXAMINATIONS COUNCIL
MATHEMATICS SCORING SHEET FOR GRADE 7

S.No	Name of Learner	Assessment No.	NUMBERS (15 marks)	ALGEBRA (7 marks)	MEASUREMENTS (18 marks)	GEOMETRY: (7 marks)	DATA HANDLING AND PROBABILITY: (3 marks)
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