SCHOOL BASED ASSESSMENT 2026

GRADE 7

MATHEMATICS SCORING GUIDE

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

5	$34.8 \div 2.32$ $\frac{348}{10} \times \frac{100}{232}$ $= 15$	M1 M1 A1 **3**	Division Fraction and the reciprocal
6	$\sqrt{40.96}$ $\frac{\sqrt{4096}}{\sqrt{100}}$ $\frac{64}{10}$ $= 6.4$	M1 M1 A1 **3**	Square root Division
7	$3x + 2 + 2x + 4 + 3x + 2 + 2x + 4$ $10x + 12$ $2\,(5x + 2)$	M1 M1 A1 **3**	Sum Factorization Simplifying
8	Let the present age be x Father's age = x + 18 $x + x + 18 = 46$ $2x = 46 - 18$ $2x = 28$ $x = 14$	 M1 A1 **2**	 Sum of present age Son's age

9	Let the pupils going for the trip be x $x \geq 20$ $x \leq 45$	 B1 B1 **2**	 Inequality 1 Inequality 2
10	$x = \sqrt{100^2 - 4^2}$ $= 9.2$	M1 A1 **2**	Length of x
11	$\frac{1}{2} \times \frac{22}{7} \times 7$ $= 11\ cm$ $7.5 + 7.5 + 11$ $= 26\ cm$	 M1 A1 **2**	 Length of the circular part Total length
12	$42 \times 28 = 1176\ m^2$ $\frac{1}{2} \times \frac{22}{7} \times 14 \times 14 \times 2 = 616\ m^2$ $1176 + 616 = 1792\ m^2$	M1 M1 A1 **3**	Area of the rectangular part Area of semi-circles Total area

13	$\frac{3}{4} \times \frac{22}{7} \times 3.5 \times 3.5 \times 10$ $= 288.75\ m^3$ 288.75×1000 $= 288\ 750\ litres$	M1 M1 A1 **3**	Volume of water in the tank Capacity of water in the tank Express in litres
14	$90296 - 90176$ $= 120\ km$ $speed = \frac{distance}{time}$ $= \frac{120}{\frac{3}{2}}$ $120 \times \frac{2}{3}$ $= 80\ km/h$	 M1 M1 A1 **3**	 Distance covered Speed of the car Speed in km/h
15	$336 - 273$ $= 63^0C$	 M1 **1**	 Correct conversion

16	$\frac{20}{100} \times 9000$ $= 1800$ $9000 + 1800$ $= 10\,800$	M1 A1 **2**	Profit Selling price
17	$\frac{8000}{40000} \times 100\%$ $= 20\%$	M1 A1 **2**	% commission Answer
18	$n - 30 + n + 2n + 10 = 180$ $4n - 20 = 180$ $4n = 200$ $n = 50^0$ $100^0 - 20^0 = 90^0$	M1 M1 A1 **3**	Total sum of angles in a triangle Value on n Difference

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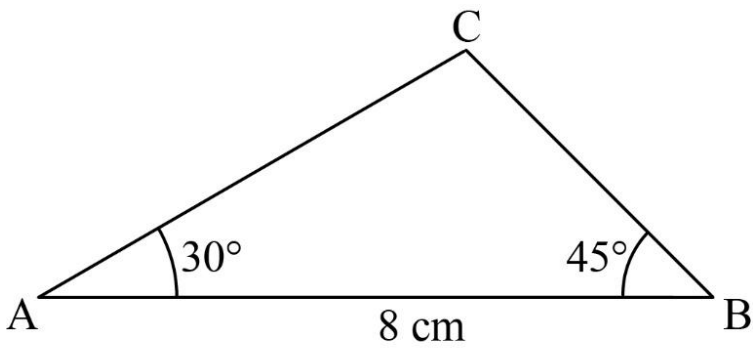
<td> 

BC = 4.2 cm ± 0.1</td>
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<td>Construction of 30^0

Construction of 45^0

Completing triangle

Measuring BC</td>
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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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