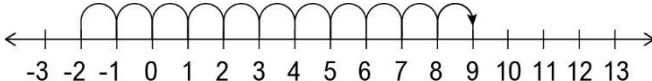


SCHOOL BASED ASSESSMENT 2026

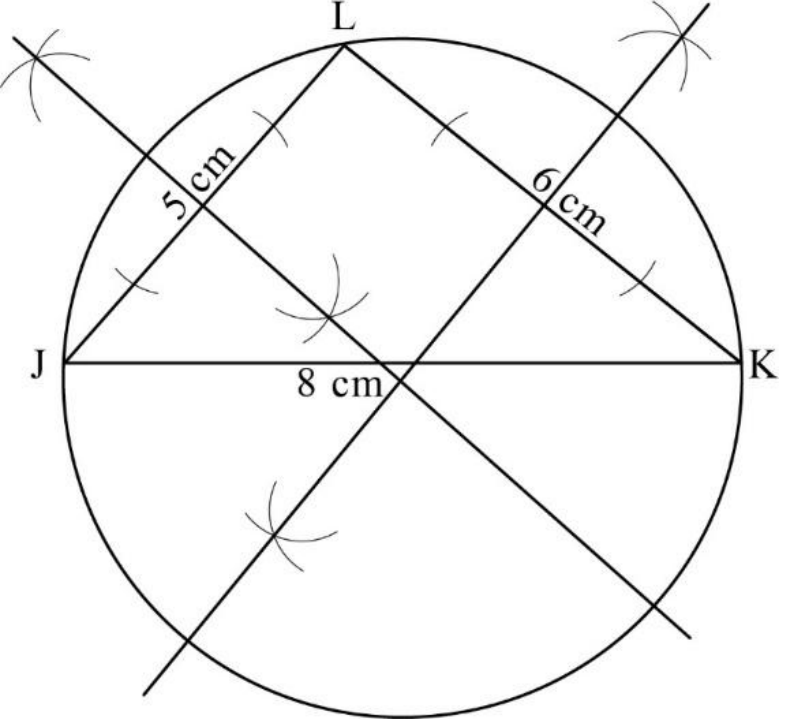
GRADE 8

MATHEMATICS SCORING GUIDE

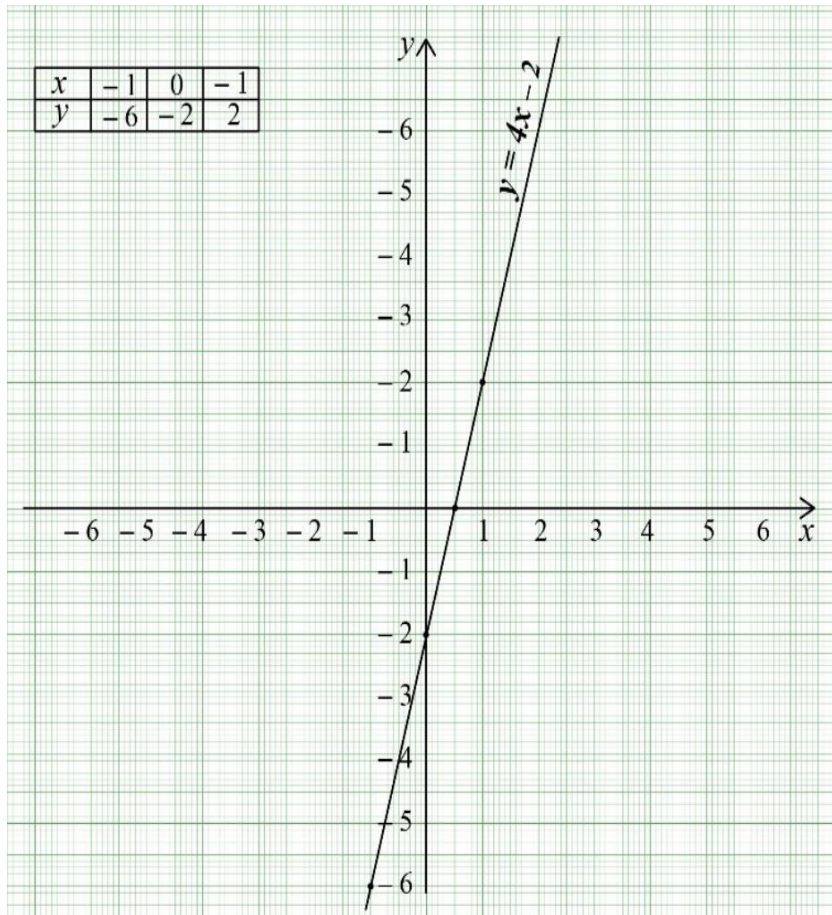
	WORKING	MARKS	REMARKS
1	 9M	M1	Correct number line
		A1	Correct length
		2	
2	$\frac{3}{5} + \frac{1}{10} = \frac{6+1}{10} = \frac{7}{10}$ $\frac{1}{2} \times \frac{7}{10} = \frac{7}{20}$	M1	Total waste fraction
		A1	Plastic waste fraction
		2	
3	Let $x = 1.818181\dots$ $100x = 181.818181$ $100x - x = 181$ $99x = 181$ $x = \frac{181}{99} = \frac{20}{11}$	M1	Forming the equations
		M1	Equating to find the value of x
		A1	Simplified fraction

7	$2(3) + 10 = 16 \text{ m}$ $3(3) - 2 = 7 \text{ m}$ $16 + 7 + 16 + 7 = 46 \text{ m}$	M1 A1 2	Calculating the length and width Getting the perimeter
8	$3x + 2y = 180$ $2x + 3y = 165$ $6x + 9y = 495$ $\underline{6x + 4y = 360}$ $5y = 135$ $Y = 27 \text{ cm}$ $\text{Length of rod B is } 27 \text{ cm}$	M1 A1 2	Solving for y Stating the length
9	$c = 2\pi r$ $44 = 2 \times \frac{22}{7} \times r$ $44 = \frac{44}{7} \times r$ $r = 7 \text{ cm}$	M1 A1 2	Correct substitution Length of the radius

10	$12 \times 10 \times 2 = 240$ $10 \times 8 \times 2 = 160$ $12 \times 8 \times 1 = 96$ $240 + 160 + 96 = 496 \text{ cm}^2$	M1	Area of the sides
		M1	Area of the bottom
		A1	Total surface area
		3	
11	$500\,000 \times \frac{15}{100} \times 1$ $= sh. 75\,000$ $575\,000 \times \frac{15}{100} \times 1$ $= sh. 86\,250$ $575\,000 + 86\,250$ $= sh. 661\,250$	M1	1 st year appreciation
		M1	2 nd year appreciation
		A1	Value of land after 2 years
		3	

12		B1	correct triangle constructed
		B1	Locating the centre of the circle
		B1	Side bisectors and Circle constructed
		3	

13



B1

Table of values

B1

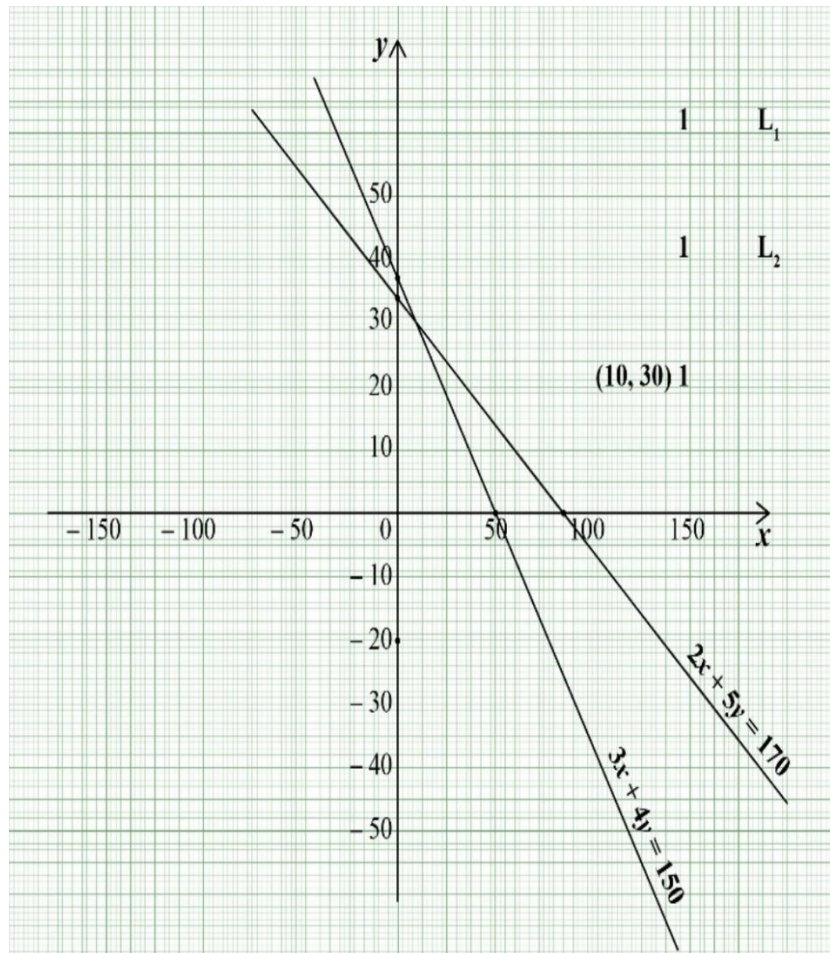
Correct points

B1

Straight line passing through all the points

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14



B1

Line 1

B1

Line 2

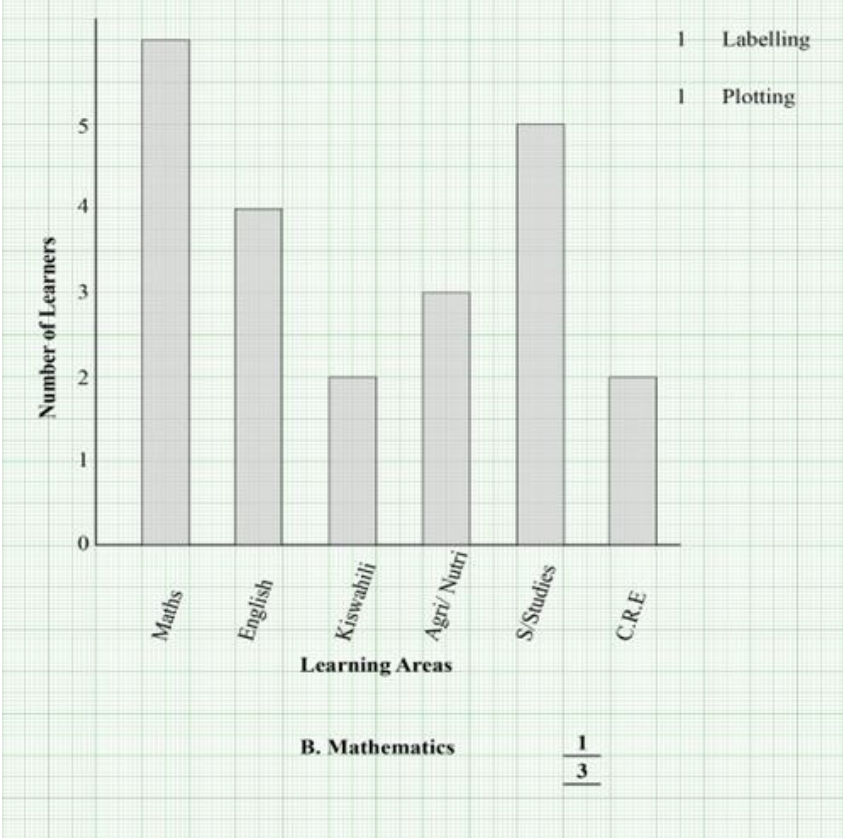
B1

Coordinates of the point of intersection

3

15	$4.2 \text{ cm} \rightarrow 8.4 \text{ km}$ $1 \text{ cm} \rightarrow 2 \text{ km}$ $1 : 200\,000$	B1	Conversion to ratio scale
		1	
16	$b = \sqrt{10^2 + 6^2}$ $= \sqrt{64}$ $= 8 \text{ cm}$ $\frac{1}{2} \times 6^3 \times 8 = 24 \text{ cm}^2$ $1 : 250$ $1 \text{ cm}^2 \rightarrow 62\,500$ $24 \text{ cm}^2 \rightarrow ?$ $\frac{24 \times 62\,500}{1}$ $= 1\,500\,000 \text{ cm}^2$ $1 \text{ ha} \rightarrow 100\,000\,000$ $? \rightarrow 1\,500\,000$ $\frac{1\,500\,000 \times 1}{100\,000\,000}$ $= 0.015 \text{ ha}$	M1	Calculating the base
		M1	Area of the scale drawing
		A1	Conversion to <i>ha</i>
		3	

17	Cone	B1	Correct name
		1	
18	$\pi r l = \frac{22}{7} \times 21 \times 70$ $= 4620 \text{ cm}^2$ $\frac{22}{7} \times 21 \times 21$ $= 1386 \text{ cm}^2$ $4620 + 1386$ $= 6\,006 \text{ cm}^2$	M1	Area of the curved surface
		M1	Area of the circular parts
		M1	Summation of total area
		A1	Answer
		4	

19	 Number of Learners Learning Areas B. Mathematics $\frac{1}{3}$	B1 B1 B1 3	
20	$3 + 2 + 1 = 6$ $\frac{2}{6}$ or $\frac{1}{3}$	M1 A1 2	Total probability Probability of picking red

SCHOOL BASED ASSESSMENT 2026
GRADE 8

MATHEMATICS SCORING RUBRICS

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

THE

**KENYA NATIONAL EXAMINATIONS COUNCIL
MATHEMATICS SCORING SHEET FOR GRADE 8**

S.No	Name of Learner	Assessment No.	NUMBERS (14 marks)	ALGEBRA (4 marks)	MEASURE MENTS (8 marks)	GEOMETRY (19marks)	DATA HANDLING AND PROBABILITY (5 marks)
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