PaperSetter Sample School

Mathematics: Squares & Square Roots, Linear Equations, Linear Inequalities…

GRADE 7 — 2026

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

Candidate's Name		**Assessment Number**	
School Name		**School Code**	
Candidate's Signature		**Date**	

MATHEMATICS

Grade 7

Time: 24 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and assessment number in the spaces provided above.
2. Write the name and code of your school in the spaces provided above.
3. Sign and write the date of the assessment in the spaces provided above.
4. This paper may consist of multiple sections.
5. Answer questions as instructed on the paper.
6. Do all the necessary rough work on the question paper.
7. Do not remove any page from this question paper.

STRANDS AND SUBSTRANDS TESTED

Strand	Substrands Tested
Numbers	Squares & Square Roots
Algebra	Linear Equations, Linear Inequalities
Measurement	Volume & Capacity, Pythagorean Relationship, Time, Speed & Distance
Ratio & Rate	Ratio
Statistics	Measures of Central Tendency

TOTAL: 34 marks

Candidate's Score: **Sec A:** ☐ **Total:** ☐ **/ 34**

Fill candidate's score per section; Teacher to sum and write total

TEACHER ASSESSMENT OF LEARNER PERFORMANCE

Tick (✓) the appropriate box based on learner's overall performance:

Below Expectation (BE)	Approaching Expectation (AE)	Meeting Expectation (ME)	Exceeding Expectation (EE)
☐	☐	☐	☐

1. Evaluate: $\sqrt{324} - \sqrt{144}$

(2 marks)

2. The equation of a line was given as $4x - 3y - 7 = 0$. What is the gradient of the line?

A. 4

B. 3

C. $\frac{4}{3}$

D. $\frac{3}{4}$

3. Solve: $-3 \leq 2x + 1 < 9$. List the integer values.

(4 marks)

4. The volume of a cube is 343 cm³. What is the side?

A. 7 cm

B. 49 cm

C. 14 cm

D. 12 cm

(1 mark)

5. A painter placed a 3.2 m long ladder at an angle of 30° with a vertical wall. What was the distance from the bottom of the ladder from the foot of the wall?

A. 6.4 m

B. 2.8 m

C. 1.8 m

D. 1.6 m

6. A motorist covered 180 km in 2 hours 15 minutes. Find the speed in km/h.

(3 marks)

7. Divide 720 in the ratio 2:3:4.

A. 160, 240, 320

B. 180, 240, 300

C. 120, 240, 360

D. 240, 240, 240

(1 mark)

8. The mean of five numbers is 12. Four of the numbers are 8, 15, 10 and 14. Find the fifth number.

(3 marks)

9. A square field has an area of 1,296 m². Find the length of one side.

(2 marks)

10. Solve: $\frac{x+3}{2} > 5$

(2 marks)

11. A ladder 3.2 m long leans at 30° to a wall. What is the distance from the foot of the wall?

A. 1.6 m

B. 2.8 m

C. 6.4 m

D. 3.2 m

(1 mark)

12. Three workers share profit in ratio 2:3:5. Total profit is Ksh 150,000. How much does each get?

(4 marks)

13. The mean of 5 numbers is 12. Four are 8, 15, 10, 14. Find the fifth.

A. 13

B. 12

C. 15

D. 11

(1 mark)

14. Evaluate without a calculator: $\sqrt{0.0049}$

(3 marks)

15. The ratio of boys to girls is 5:3. If there are 120 pupils, find the number of boys.

(2 marks)

16. The mode of 4, 7, 2, 4, 9, 4, 7, 2 is:

A. 4

B. 7

C. 2

D. 9

(1 mark)