

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT
GRADE 9 - YEAR 2025
MATHEMATICS



001

Name _____ Assessment No. _____

School _____ Date. _____

Instructions: Answer all questions in the spaces provided. TIME: 2HRS

1. Kanini measured the temperature in her house at midday as 19°C . At midnight, temperature was 7°C lower than the temperature at midday. Determine the temperature at midnight. (2mks)

2. Amina had $1\frac{1}{8}$ kg of flour. To cook porridge for her family, she needed $2\frac{5}{6}$ kg of flour. She bought an extra $2\frac{1}{6}$ kg of flour. Calculate the mass of flour that remained after she cooked the porridge. (2mks)

3. Work out; (2mks)

$$2\frac{2}{5} \div 3\frac{15}{16} \times 1\frac{1}{8}$$

4. The time that Ogutu took to run a race was $\frac{6}{7}$ of the time that Makokha took. Makokha took 210 seconds to run the race. How long did Ogutu take to run the race? (2mks)

A. 180 seconds B. 10 seconds C. 210 seconds D. 30 seconds

5. Convert $0.\dot{4}0\dot{5}$ into fraction (2mks)

6. Express 0.00375 in standard form (2mks)

7. Work out;

$$2.5 \times 5.1 \div 1.7 - 3.9 + 7.5$$

(1mk)

8. Ouma converted the length of the sides of a square ranch to metres. The length of one side of the ranch was 1563m. Use square tables to calculate the area of the ranch. (2mks)

9. A driver fuelled her truck at a fuel station. She paid Sh.27161 for 173 litres of diesel. How much would she pay if she fuelled the truck with 250 litres of diesel? (2mks)
A. Sh.27161 B. Sh.43250 C. Sh.39250 D. Sh. 39520

10. A mason mixed cement, sand and gravel in the ratio 1:2:4 respectively to lay a foundation for a school's poultry house. The mass of the sand was 900kg. Determine the mass of the cement and the gravel that she used. (2mks)

11. The cost of petrol decreased from Ksh.180 per litre to Sh.171 per litre. Calculate the percentage decrease in the price. (2mks)

12. A family of five people has food to last them for 14 days. Two more people joined the family. How many days will the food last if they eat at the same rate? (2mks)
A. 7 B. 10 C. 2 D. 8

13. Karungo harvested $\left(\frac{3r - 125}{4xr - 16 \times 5}\right)$ kg of coffee from his farm. Express the mass of coffee that he harvested in the simplest form. (2mks)

14. What is the value of $\frac{18a + 6b^2}{c(b + 8)}$, If $a=5$, $b=7$ and $c=2$? (2mks)

A. $12\frac{4}{5}$

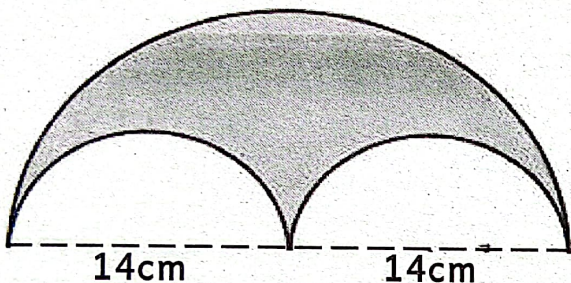
B. $12\frac{1}{4}$

C. $13\frac{4}{5}$

D. $5\frac{4}{12}$

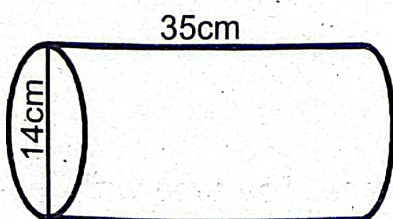
15. The cost of three shirts and two pairs of trousers is Sh.3900. The cost of two shirts and five pairs of trousers is Sh.8100. Determine the price of a shirt and that of a pair of trousers using the elimination method (2mks)

16. Work out the perimeter of the figure below (Take $\pi = \frac{22}{7}$) (2mks)



17. The area of a sector of a circle is 19.25cm^2 . The angle at the centre is 45° . Calculate the radius of the sector. (Take $\pi = \frac{22}{7}$) (2mks)

18. Grade 9 learners drew the cylinder drawn below



What is its surface area? (2mks)

A. 10780cm^2

B. 5390cm^2

C. 1540cm^2

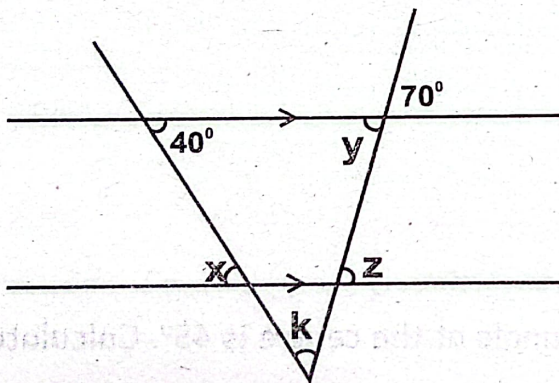
D. 1848cm^2

19. Khariri deposited Sh.90000 in a bank. The bank paid simple interest at the rate of 9% per annum. He earned an interest of Sh.24300. Calculate the period that the deposit stayed in his bank account (2mks)

20. The hire purchase price of microwave was Sh.24000. Tom paid a deposit of Sh.10000 and the balance in seven equal monthly instalments. How much was each instalment? (2mks)

21. Work out $\sqrt{19\frac{30}{49}}$ (2mks)

22. Find the value of the angles marked by the letters (2mks)



23. Convert the scale 1cm represents 5km to a ratio scale (2mks)

24. The population of people in five constituencies of a county are as follows; 21003, 17510, 23105, 15207 and 12335.

Calculate the mean population (2mks)

25. During a probability lesson, John tossed a die 120 times. The face with 3 appeared 47 times. Determine the probability outcomes of 3 appearing in the next toss. (2mks)