THE KENYA NATIONAL EXAMINATION AND ASSESSMENT PREDICTION SERIES

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

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

-MATHEMATICS-

703: MATHEMATICS

TERM 2 ENDTERM 2025

Time: 1 hour 40 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 consists of two sections: A and B.
5. Section A comprises Multiple Choice Questions numbered 1 to 30.
6. Section B comprises short, structured questions number 31 to 42.
7. Answer ALL the questions in section A on the separate ANSWER SHEET provided.
8. Answer ALL the questions in section B in the spaces provided in this QUESTION PAPER.
9. Do NOT remove any page from this question paper.
10. Answer ALL the questions in English.

For official use only

Section	Task	Question Numbers	No. of Questions	Max Score	Candidate Score
Section A	-	Q1 – Q20	20 MCQs	20 marks	
Section B	Task 1	Q21 – Q23	3 questions	16 marks	
	Task 2	Q24 – Q25	2 questions	14 marks	
	Task 3	Q26 – Q28	3 questions	20 marks	
	Task 4	Q29 – Q31	3 questions	18 marks	
	Task 5	Q32 – Q33	2 questions	12 marks	
	TOTAL			**100 marks**	

This paper consists of 13 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A: (20 marks)

Choose the correct answer and write the letter of your choice in the box provided.

1. What is the place value of digit 7 in 874,325?
   A. 7,000 B. 70,000
   C. 700 D. 700,000
2. What is the LCM of 6 and 8?
   A. 24 B. 48
   C. 12 D. 18
3. Which of these numbers is a prime number?
   A. 15 B. 21
   C. 19 D. 27

4. A school had 240 learners. Each classroom holds 40 pupils. How many classrooms are needed, and how many learners will be in the last classroom if one is not full?
   A. 6 classrooms, 0 pupils left
   B. 5 classrooms, 40 pupils left
   C. 6 classrooms, 0 pupils left
   D. 7 classrooms, 0 pupils left
5. Convert 0.625 to a fraction in simplest form.
   A. 5/8 B. 3/4
   C. 2/5 D. 7/10
6. 4.5 kg is equal to:
   A. 450 g B. 4,050 g
   C. 4,500 g D. 450,000 g
7. Multiply: 2.4×3.6
   A. 6.84 B. 8.64
   C. 7.24 D. 9.24
8. Which of the following correctly represents 104 in Roman numerals?
   A. CIIII
   B. CXI
   C. CIV
   D. CIVI
9. What is the square root of 121?
   A. 11
   B. 22
   C. 144
   D. 111
10. Solve: $5^2 - 4 \times 3$
    A. 13
    B. 17
    C. 19
    D. 25

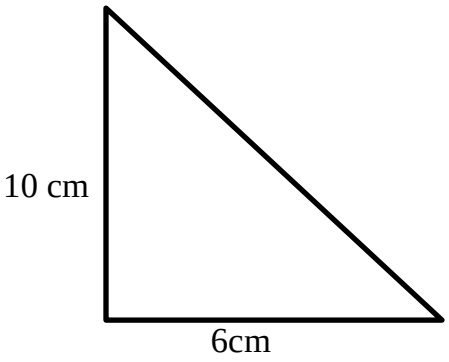
Working space

Use the information below to answer question 11, 12 and 13.

A Grade 7 class of 36 pupils chose their favourite games:

Game	Number of learners
Football	12
Volleyball	6
Netball	9
Athletics	9

11. What angle in the pie chart represents football?
    A. 90° B. 120°
    C. 100° D. 110°
12. What is the total angle representing Netball and Athletics?
    A. 100°
    B. 120°
    C. 180°
    D. 200°
13. Which game is liked by the least number of pupils?
    A. Volleyball
    B. Football
    C. Netball
    D. Athletics
14. What is the area of a triangle with base 6 cm and height 10 cm?



    A. 60 cm²
    B. 30 cm²
    C. 16 cm²
    D. 20 cm²

15. What is the mode in the set:
    4, 7, 7, 2, 7, 3, 4?
    A. 4
    B. 7
    C. 3
    D. 2

Working space

16. Convert ¾ into a percentage.
    A. 75%
    B. 80%
    C. 65%
    D. 70%
17. If 5 oranges cost Ksh 40, what is the cost of 8 oranges?
    A. Ksh 60
    B. Ksh 64
    C. Ksh 70
    D. Ksh 72
18. A tank is $\frac{3}{4}$ full and contains 300 litres of water. What is its total capacity?
    A. 450 litres
    B. 400 litres
    C. 600 litres
    D. 500 litres
19. Find the value of x in:

    $2x - 3 = 11$
    A. 5
    B. 7
    C. 8
    D. 6

20. What is the volume of a cuboid 5 cm long, 4 cm wide, and 3 cm high?
    A. 12 cm^3
    B. 60 cm^3
    C. 20 cm^3
    D. 80 cm^3

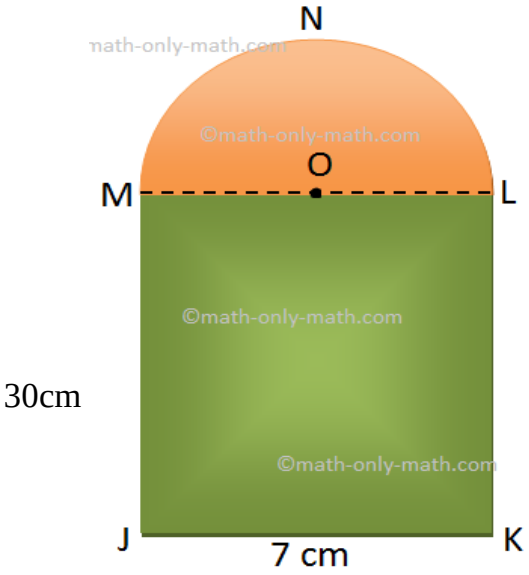
Working space

SECTION B: (80 marks)

Answer all questions in this section

21. A school has 1,200 learners. 480 are boys. What percentage of the learners are girls? (2 marks)

22. A piece of card was cut into the shape shown below. Find:



a) Its area. (2 marks)

b) Its perimeter. (2 marks)

23. Find the average of: 72%, 84%, 90%, and 66%.**(2 marks)**

24. A trader bought 10 bags of maize at Ksh 2,700 each and sold each at Ksh 3,200. Calculate:
    a) Total buying price**(2 marks)**

    b) Total profit **(2 marks)**

    c) Percentage Profit made**(2 marks)**

25. A cuboid has dimensions 6 cm, 5 cm, and 2 cm. Find its volume. **(2 marks)**

26. Solve the equation: **(2 marks)**

    $4(x+2) = 20$

27. A shopkeeper gives a 10% discount on an item costing Ksh 2,000. **(3 marks)**
    a) How much is the discount?

    b) What is the selling price?

28. What number is twenty million, five hundred and twenty seven thousand, two hundred and five? (1 mark)

29. Write down the place value of seven in the number below (1 mark)

    60251.789

30. Round off the following numbers to the nearest hundred thousands(2marks)
    1. 292,304

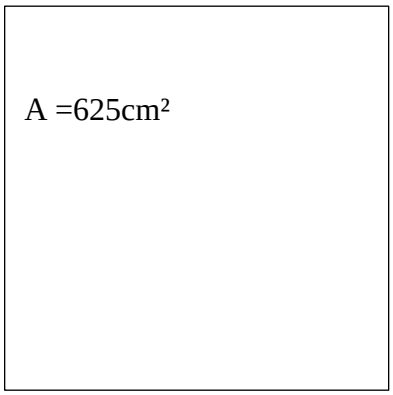
    2. 420,992

31. Find the missing number in each of the following (2 marks)
    1. 3, 9, 27, _____?

    2. 19, 25, _____, 37

32. Express $^{6}/_{7}$ into 3 decimal places(2marks)

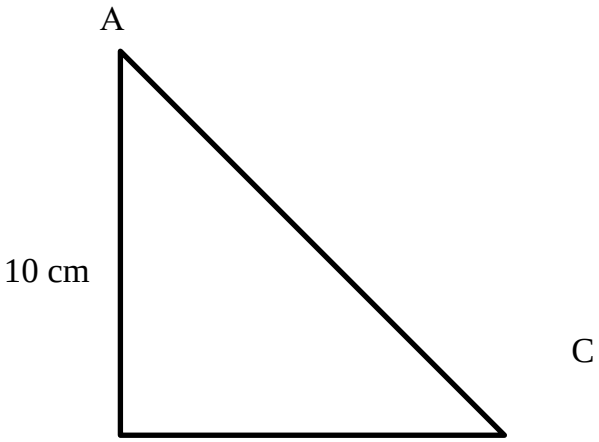
33. The area of a square is 625cm². What is the perimeter?(3 marks)



34. A third of the people in a church one Sunday were men. ¼ of the remaining were children. If there were 240 people in church that Sunday, how many women were there? (2 marks)

35. Express the compound inequalities into a number line $3<x<9$ (2 marks)

36. Triangle ABC is a right angled triangle. The distance from A to B is 10cm and from B to C is 24 cm. Find the distance from A to C (2marks).



37. A church floor is built in the shape of a rhombus QRST. If the largest diagonal of the church floor is 240m long and the other diagonal is 100m long. Find the area of the floor? (3marks)

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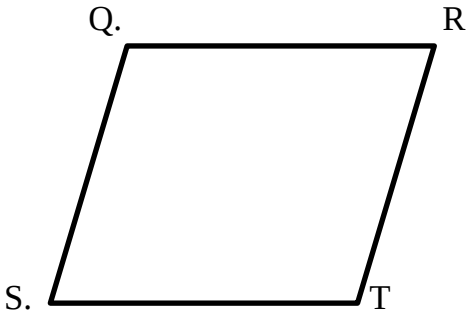
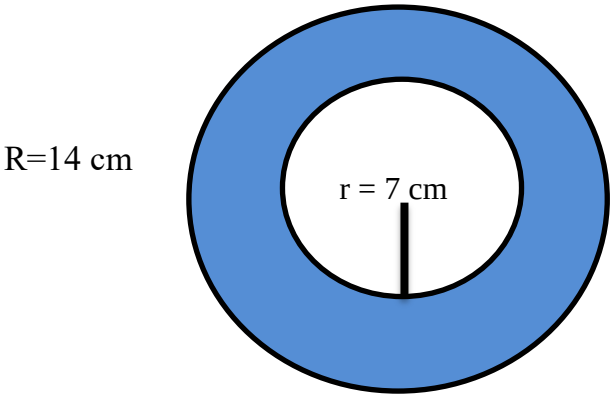
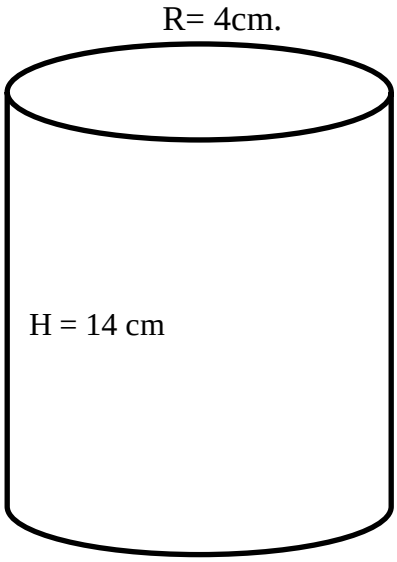


38. A painter painted a circular design on a board of a radius 14cm and excluded an inner part of radius 7 cm. Calculate the area he painted (3 Marks)



39. A can of soup is a cylinder with a height of 14cm and a circular radius of 4 cm. Find the volume of the soup can? (3 marks)

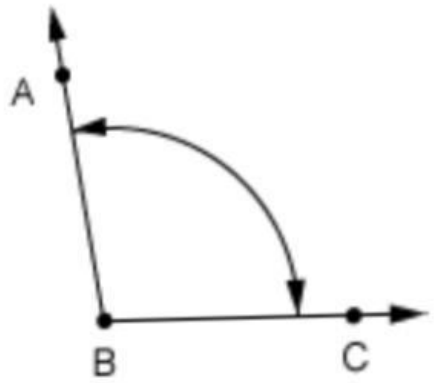


40. Find the speed and average speed of a train which leaves the Mombasa Station at 10 p.m. and reaches next day at 10 a.m. The distance between the two stations is 648 km and the total time for stoppage is 2 hours between these stations. (3 Marks)

41. At 6 p.m., the temperature is 6°k. At 2 a.m., the temperature has dropped by 15 degrees. What is the temperature at 2 a.m.?(3 marks)

42. Gaeta wants to deposit Ksh250.75, Ksh360.50 and Ksh200.00 respectively as tuition fees for his three children. She gave a Ksh1000 note to the bank clerk. How much amount will clerk return to her. (3marks)

43. .a) Below is a 100 degree angle. How many degrees would you add to it to make it 180 degree.(1 mark)



44.. Distribute and simplify the following.(2 marks)

$3(x + 4) + 2(5 – x)$

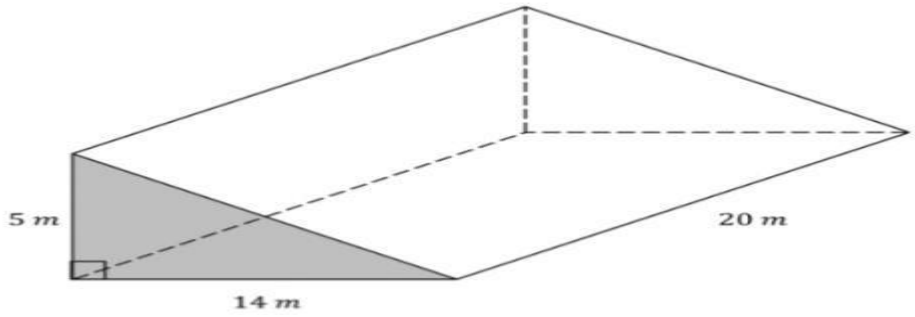
45. A rectangle's length is twice as long as its width. If the width of the rectangle is 4, what is its area? (3 marks)

46. Find the square root of 225 by prime factorization method (3 marks)

47. Find the product of ⅝ and ⅘ (2 marks)

48. Give the decimal equivalent for the fraction $\frac{3}{4}$(1 mark)

49. Calculate the capacity of the following solid.(3 marks)



50. Write the following as decimals (2 marks)

20+ $^{4}/_{10}$ + $^{9}/_{100}$

51. The table below shows the number of fruits sold by a vendor in one day:

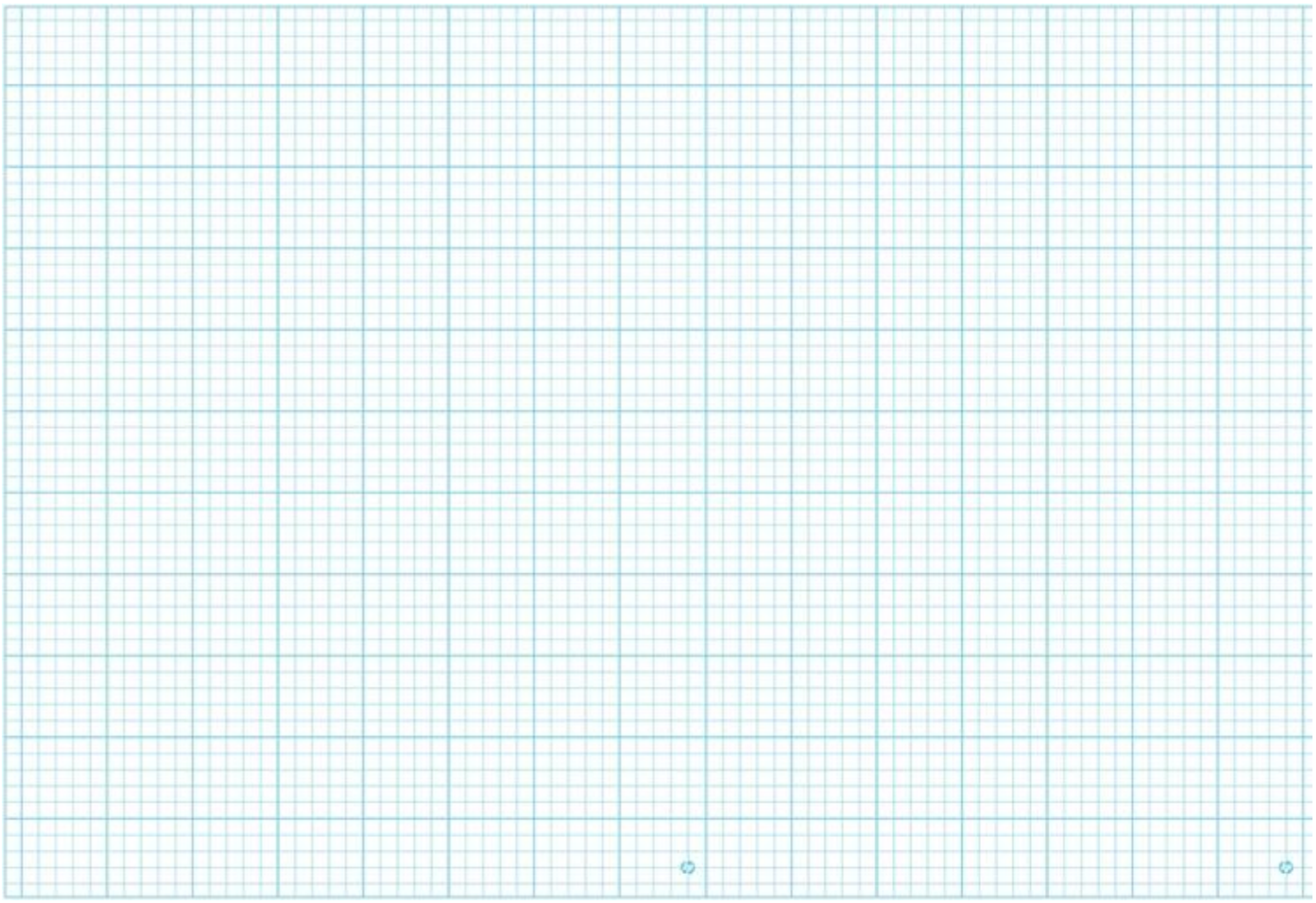
Fruit	Number Sold
Mangoes	30
Oranges	45
Bananas	25
Apples	20
Pineapples	10

a. Which fruit was sold the most? (1 mark)

b. How many fruits were sold altogether? (1 mark)

c. How many more oranges were sold than apples? (1 mark)

d. Draw a bar graph using this data, which fruit will have the shortest bar? (3 marks)



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