

JIM JUNIOR SCHOOL

To Excel is Our Aim

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PRIMARY SEVEN

PLE REGISTRATION 2022

MATHEMATICS EXAMINATION

CANDIDATE'S NAME: _____

SECTION A: 40 MARKS

Answer **all** questions in this section.

Questions **1** to **20** carry two marks each.

1. Work out: $714 \div 7$

2. Write "One hundred thousand, one" in numerals.

3. If $P = \{1, 2, 3, 4, 5\}$ and $Q = \{a, b, c, d, e\}$. Find $n(P \cap Q)$

4. Write XLIV in Hindu Arabic numerals.

5. A school bursar deposited a bundle of twenty thousand shilling notes to the bank numbered from AB855801 to AB855900. How much money did the bursar deposit?

6. Find the next number in the sequence below:

1, 3, 6, 11, 18, _____

7. Okwaja is standing in the tenth position from the either sides of the line of teachers. How many teachers are in the line altogether?

8. Express 10011_{two} as a decimal base.

9. Use distributive property only to work out (25×1.5)

+ (75×1.5) 10. Write 0.000438 in standard form.

11. The ratio of boys to girls is $2:3$. When increased by p , it becomes $14:15$. Find the value of p .

12. Mr. Esau deposited sh. 240,000 in stanbic bank at the interest rate of 15% per year for 9 months. Find his simple interest.

13. Find the value of x in the figure below.

$$80^\circ$$

x

14. Simplify: $-4 - -11$

15. A man's stride is 30cm. How many strides does he have to make to cover a distance of 150 metres?

16. Find the square root of $6^{\frac{1}{4}}$.

17. Evaluate $a^2 - b$ if $a = -3$ and $b = 2$.

18. In a class of 32 boys, the ratio of boys to girls is 2:3. Find the number of girls in the class.

19. Find the area of the figure below.

13 cm_h

12 cm

20. Solve: $2^{2x} = 64$

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SECTIONS B: 60 MARKS

21. In a class of 40 candidates, all like chicken (C), 20 like meat (M) and chicken, 25 like fish (F) and chicken, p like all the three types of food while 5 candidates like chicken only.

a) Complete the Venn diagram below. (3marks) $n(\epsilon) = 40$

$n(M) = n(F) =$

P -----

b) How many candidates like all the three types of food? (2marks) -----

22. The figure below is a rectangle whose perimeter is 46 m. Use it to answer the questions that follow.

$(a-1)m$

$(a+6)m$

a) Find the value of a . (2marks) b) Work out the area of the figure above.

(3marks)

6

23. Mary went to the market and bought the following items. • 2

kg of meat at sh. 8,000 per kg

• $1\frac{1}{4}$ kg of sugar at sh. 6,000 each kg

• 500g of maize flour at sh. 3,000 per kg

• 12 tomatoes at sh. 1,000 for every 3 tomatoes

a) How much money did she spend altogether? (5marks)

b) If she was given a change of sh. 21,000, how much money did she have at first? (1mark)

24. The sum of three consecutive even numbers is 66. If the last number is r , a)
Find the numbers. (3marks)

b) Work out the range of the numbers. (1mark)

25. The table below shows marks scored by some pupils.

Marks	80	k	70	90
No. of pupils	2	4	3	1

a) How many pupils did the test? (2marks) b) Find the value of k if the

mean mark is 66. (3marks)

26. The table below shows the arrival and the departure time of the bus from Kampala to Tororo. Use it to answer the questions that follow.

Town	Arrival	Departure
Kampala		7: 00 am
Jinja	8: 45 am	9: 00 am
Iganga	10: 00 am	10: 20 am
Bugiri	11: 00 am	11: 15 am
Tororo	12: 00 noon	

a) How long did the bus take to travel from Iganga to Tororo? (2marks) b) For

how long did the bus stay in Jinja? (1mark)

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c) If the distance from Kampala to Tororo is 255 km, calculate the average speed at which the bus was traveling. (2marks)

27. Mulokosi is twice as old as his brother now. In 5 years' time, their total age will

be 40 years.

a) How old is Mulokosi's brother now? (4marks)

b) How old will Mulokosi be in 5 years' time? (1mark)

28. a) Using a ruler, a pencil and a pair of compasses only, construct a triangle ABC in which $AB = 6 \text{ cm}$, $BC = 8 \text{ cm}$ and $AC = 10 \text{ cm}$ (4marks)

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b) Measure angle ABD. (1mark)

29. Pautinoh, Robbinoh and Ronaldinoh shared a certain amount of money in the ratio of 2: 3: 4 respectively. If Robbinoh got sh. 90,000;

a) Find their total share. (3marks)

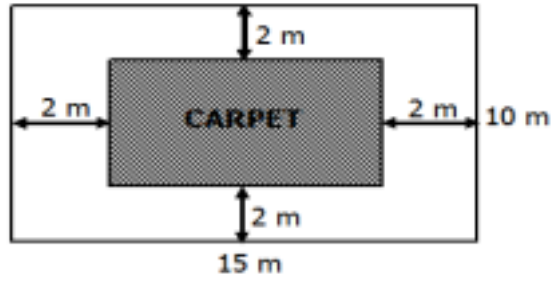
b) How much more money did Ronaldinho get than Pautinho? (2marks)

30. The interior and exterior angles are in the ratio of 7:2.

a) Find the size of each angle. (3marks) b) Calculate its interior angle

sum. (2marks)

31. The figure below represents the sitting room of 15 m by 10 m with a carpet placed in the middle. Use it to find the area of the space that is not covered by the



carpet. (5marks)

32. Given that $y = x - 2$. Complete the table below. (5marks)

x	-2	_____	0	_____	2
y	_____	-3	_____	-1	_____

END