

# SOUTH WEST REGIONAL MOCK EXAMINATION

## GENERAL EDUCATION

The Teachers' Resource Unit (TRU) in collaboration with the South West Association of Mathematics Teachers(SWAMT)	<b>Subject Code</b> 0570	<b>Paper Number</b> 1
CANDIDATE NAME ..... CANDIDATE NUMBER ..... CENTRE NUMBER .....	SUBJECT TITLE  <b>MATHEMATICS</b>	
<b>Ordinary Level</b>	<b>DATE: FRIDAY</b> <b>28/03/2025 -AFTERNOON</b>	

**Time Allowed: ONE HOUR THIRTY MINUTES**

### INSTRUCTIONS TO CANDIDATES:

1. USE A SOFT HB PENCIL THROUGHOUT THIS EXAMINATION.
2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

**Before the Examination begins:**

3. Check that this question booklet is headed "Ordinary level Mathematics 0570 paper 1".
4. Insert the information required in the spaces provided above.
5. Without opening the booklet, pull out the answer sheet carefully from inside the front cover of this booklet. Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.
6. Insert the information required in the spaces provided on the answer sheet using your HB pencil:

**Candidate Name, Centre Number, Candidate Number, Subject Code Number and Paper Number**

**How to answer questions in this examination:**

7. Answer ALL the 50 questions in this examination. All questions carry equal marks.
8. Non programmable calculators are allowed.
9. For each question there are four suggested answers, A, B, C, and D. Decide which answer is correct. Find the number of the question on the Answer sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen. For example, if C is your correct answer, mark C as shown below:

( A ) ( B ) (  C  ) ( D )

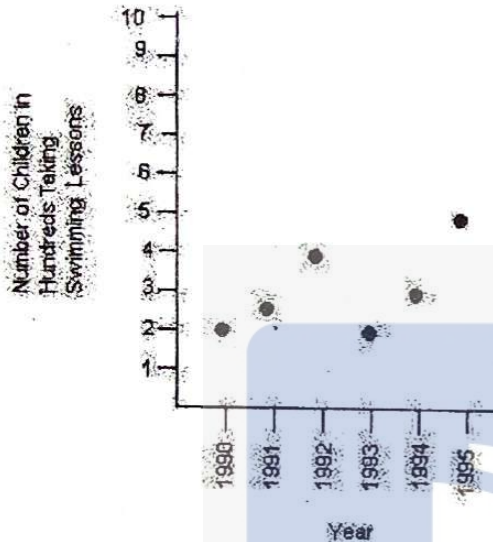
10. Mark only one answer for each question. If you mark more than one answer, you will score zero for that question. If you change your mind about an answer, erase the first mark carefully, and then mark your new answer.
11. Avoid spending much time on any question. If you find a question difficult, move to the next question. You can come back to this question later.
12. Do all rough work in this booklet using, where necessary, the blank spaces in the question booklet.
13. Mobile phones are **NOT ALLOWED** in the examination room.
14. **You must not take this booklet and answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.**

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1. If  $y(x-1) = z$ , then

A	$x = y - z$
B	$x = \frac{z}{y} + 1$
C	$x = \frac{z}{y} - 1$
D	$x = z(y - 1)$

2. The graph below gives the number of children taking swimming lessons for some years.



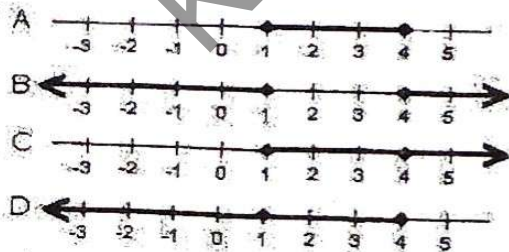
The number of children who took swimming lessons in 1995 are:

A	5
B	400
C	500
D	4

3. The fraction  $\frac{7}{8}$  is the same as

A	80%
B	85%
C	87.5%
D	90.5%

4. Which of the following is the correct graph of  $x \geq 1, x \leq 4$



5. The next number in the sequence 2, 9, 16, ..... is

A	22
B	23
C	24
D	32

6. Given that 3:96 can be written as 7:n, then the value of n is,

A	100
B	180
C	200
D	224

7. The time taken to cover 250km at a speed of 40km/h is:

A	$6H, \frac{1}{4} mins$
B	6H15mins
C	6H30mins
D	$6H, \frac{3}{4} mins$

8. How many cube pieces of size 3cm can be packed into a tin of size 9cm by 12cm by 9cm?

A	24
B	32
C	36
D	43

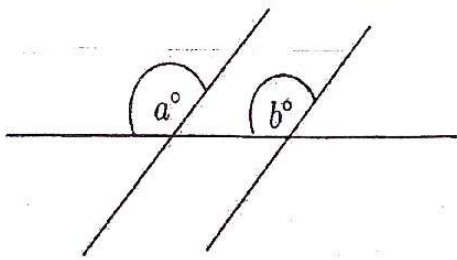
9. Anne took a lift from the fifth to the seventh floor of a building, then went down by four floors. Her final position is;

A	First Floor
B	Second Floor
C	Third Floor
D	Fourth Floor

10. Given that Peter scored 4 out of 5 marks in a test. His marks on 100 is,

A	40
B	50
C	80
D	90

21. Consider the diagram below.



Angles  $a^\circ$  and  $b^\circ$  are a pair of

A	vertically opposite angles
B	supplementary angles
C	complementary angles
D	corresponding angles

22. The smaller measure of the circumference of a circle is called

A	Segment
B	minor sector
C	minor arc
D	Radius

23. A rectangular garden measures 6m by 9m. The length of the barbwire needed to fence it round is;

A	15m
B	56m
C	30m
D	36m

24. The area of a sector of a circle of radius 7cm, that subtends angle of  $180^\circ$  at the center of the circle is; ( $\pi = \frac{22}{7}$ )

A	$154\text{cm}^2$
B	$77\text{cm}^2$
C	$44\text{cm}^2$
D	$22\text{cm}^2$

25. If  $3x = 6x - 18$ , then  $x + 8 =$

A	6
B	10
C	14
D	24

26. The number of millilitres in 1 litre is

A	1000
B	10000
C	0.1
D	0.01

27. Given the equation of the lines

$L_1: y = x - 2$  and  $L_2: y = 5 - x$ , then

A	$L_1$ and $L_2$ are parallel
B	$L_1$ and $L_2$ are perpendicular
C	$L_1$ and $L_2$ are equal
D	$L_1$ and $L_2$ have the same y- intercepts

28. The equation of the line passing through the points (0, 1) and (2, -2) is:

A	$2y + 3x = 2$
B	$2y - 3x = 2$
C	$2y - 3x = -2$
D	$-2y - 3x = 2$

29. The equation of the line drawn on the graph of  $y = x^2 - 1$ , to solve the equation  $x^2 + 2x - 3 = 0$  is:

A	$2y + 3x = 2$
B	$y = 2x + 3$
C	$y = 2 - 2x$
D	$2y + 2x = 2$

30. The value of  $-4e - 3$ , when  $e = 2.7$  is

A	13.8
B	-7.8
C	-13.8
D	7.8

31. The simplified form of the expression  $x + 3(x + 1) - 2$  gives

A	$4x + 3$
B	$4x - 6$
C	$4x + 1$
D	$5x$

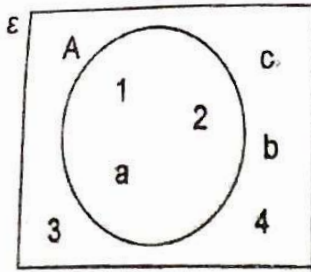
32. The value of x that satisfies the equation  $2x + 4 = x - 3$  is;

A	-7
B	1
C	$\frac{7}{3}$
D	$-\frac{7}{3}$

33. The value of  $4 + (3.005)^0$  is

A	4
B	5
C	7
D	8

11. Given the Venn diagram



Then the value of  $n(A)$  is ;

A	1
B	2
C	3
D	4

12. Given the sets  $A = \{1,3,5\}$  and  $B = \{3,4,5\}$ , then  $A \cup B$  is;

A	$\{1,3,5\}$
B	$\{3,4,5\}$
C	$\{1,3,3,4,5,5\}$
D	$\{1,3,4,5\}$

13. In the statement "if I am sick, then I will take my medicine", the statement "I am sick" is

A	conclusion
B	premise
C	conjunction
D	disjunction

14. Sarah is twice as old as her younger brother. If the difference between their ages is 15 years, then the age of her younger brother is;

A	7 years
B	10 years
C	15 years
D	30 years

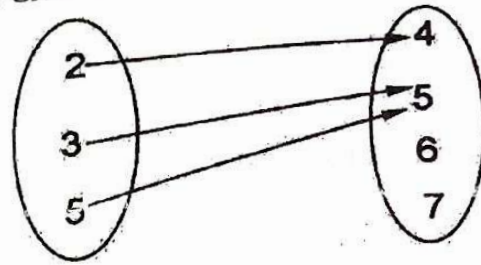
15. Given that  $g: x \rightarrow 3^x + 2$ , then  $g(2)$  is;

A	7
B	8
C	11
D	12

16. The labour cost for tilling is 1350FCFA per square metre. The total labour cost for tilling a conference room that is 12m by 20m (in FCFA) is;

A	240000
B	300000
C	324000
D	342000

17. Given the relation



The range is

A	$\{3,5,6,7\}$
B	$\{3,5,6,7\}$
C	$\{3,4,5\}$
D	$\{4,5\}$

18. The sum of the exterior angles of an octagon is;

A	$60^\circ$
B	$90^\circ$
C	$180^\circ$
D	$360^\circ$

19. The number of line(s) of symmetry that drawn on 808 is (are).

A	1
B	2
C	3
D	4

20. The locus of points equidistant from two fixed points P and Q is;

A	A perpendicular bisector of the line joining P and Q
B	A circle passing through P and Q
C	two circles with centers P and Q
D	two lines parallel to P and Q

45. The transformation that takes triangle  $A(3, 1)$ ,  $B(6, 3)$ , and  $C(6, 1)$  to  $A^1(3, -1)$ ,  $B^1(6, -3)$  and  $C^1(6, -1)$  respectively is:

A	a translation
B	an enlargement
C	a reflection on the on the x-axis
D	a reflection on the y-axis

46. Jonathan can clear a yard in 40 minutes. Susan can clear it in 30 minutes and Jack can equally clear it in 24 minutes. Working together, the time taken by three of them to clear the yard is equal to;

A	5 minutes
B	10 minutes
C	15 minutes
D	18 minutes

47. The range of the data  $\{1, 3, 10, 4, 7\}$  is;

A	9
B	8
C	6
D	5

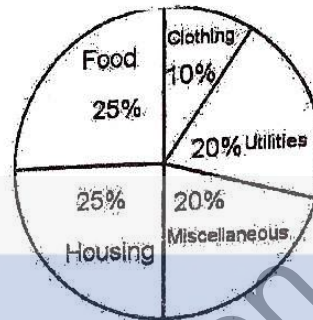
48. Sarah intends to bake four cakes of the same weights. After mixing the ingredients she sizes into four parts and realized that they weigh 4 kg, 3 kg, 5.5 kg and 4.5 kg. Given that she must use all of what she has, then each part must be resized to weigh

A	4 kg
B	4.25 kg
C	5 kg
D	5.25 kg

49. The results of some Form One students questioned about their favorite color is: blue, white, green, blue, green, red, blue, white and blue. The number of students questioned are:

A	4
B	6
C	7
D	9

50. Below shows the percentages and the items which Jessica budgeted in the month of April 2024.



Given that her salary for that month was 153000FCFA, then the amount (in FCFA) spent on both food and clothing is equal to

A	30600
B	35000
C	53550
D	76500

**STOP!!!**  
**GO BACK AND CHECK YOUR WORK.**