SOUTH WEST REGIONAL MOCK EXAMINATION
GENERAL EDUCATION EXAMINATION

The Teachers' Resource Unit (TRU) in collaboration with the South West Association of Mathematics Teachers (SWAMT)

FRIDAY 27/03/2026: MORNING **ORDINARY LEVEL**

Centre Number	
Centre Name	
Candidate Identification Number	
Candidate Name	

Mobile phones are NOT allowed in the examination room.

MULTIPLE CHOICE QUESTION PAPER
Duration: One and a Half Hours

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 programable 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:

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.**

1. Simplifying $3^3 + 3^3 + 3^3$, gives
   A 3^3
   B 3^4
   C 3^6
   D 3^9

2. $f: x \to 1 - 2x,\ x \in \mathbb{R}$. The values of $ff(2)$ gives
   A -3
   B -5
   C 3
   D 7

3. When a regular polygon has 45^0 as an exterior angle. Then the number of sides of the polygon is:
   A 5
   B 6
   C 7
   D 8

4. The diagonals of a kite measure $50cm$ by $80cm$. The area of the kite in cm^2 is
   A 4000
   B 3000
   C 2000
   D 1000

5. In the figure 1, the shaded region is called

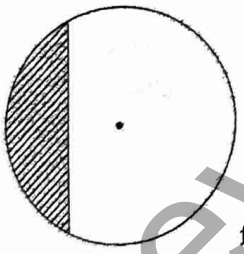


figure 1

   A a segment
   B an arc
   C a sector
   D a chord

6. A store keeper sold 2 pens and 5 books for 4,150FCFA. Given that a book costs 750 FCFA, then the cost of a pen in FCFA is
   A 50
   B 100
   C 150
   D 200

7. The number of cubic boxes of side 2cm that can fit exactly in a big box which is $6cm$ long, $5cm$ wide and 8cm high is equal to
   A 15
   B 18
   C 30
   D 45

8. The perimeter of a rectangle is $64cm$. if the width is $8cm$, then the length is
   A $30cm$
   B $24cm$
   C $20cm$
   D $8cm$

9. A line segment passing through $(0,3)$ *and* $(-5,-7)$ has equation
   A $y = 2x + 3$
   B $y = -5x - 7$
   C $y = 3x$
   D $y = -2x + 7$

10. The value of $(27)^{-\frac{2}{3}}$ is equal to
   A $\frac{1}{3}$
   B $\frac{1}{9}$
   C $-\frac{1}{3}$
   D $-\frac{1}{9}$

11. When $cos\theta = \frac{4}{5}$, then $cosec\theta =$
   A $\frac{5}{3}$
   B $\frac{3}{5}$
   C $\frac{5}{4}$
   D $\frac{3}{4}$

12. In a certain Form five class, $\frac{2}{5}$ of the number of students are girls. If the number of boys in the class is 54, then the number of girls is
   A 18
   B 36

C 22
D 46

13. The median of the scores, 3, 5, 3. 5, 7, 3, 6, 4, 3 is
A 3
B 4
C 5
D 7

14. On a map, the scale is 1:3500. The distance, in km, between town T_A and town T_B which are 8.2cm apart on the map gives
A 287
B 28700
C 2.87
D 2.9

15. The midpoint of the line segment $[A, B]$, where $A(-3, 6)$ and $B(7, 6)$ is given by
A $(2, 6)$
B $(4, 12)$
C $(4, 6)$
D $(10, 0)$

16. The roots of the equation $x^2 - 4x - 4 = 0$ are
A Real and equal
B Imaginary
C Distinct
D Real and distinct

17. Given that $(x - 3)$ is a factor of the polynomial $p(x) = (x + 2)(x + \beta)(x - 1)$, then the value of β is equal to
A 3
B -3
C 2
D -2

18. The sum of the roots of $3x^2 + kx - c = 0$ is 2 and their product is $\frac{2}{3}$ then the value of k equals
A 2
B 6
C -2
D -6

19. The sum of the first n terms of a sequence is given by $S_n = n^2 + 2n$. Then the 4^{th} term gives
A 24
B 15
C 16
D 9

20. Given that the arithmetic mean of r and s is equal to t, then
A $t^2 = rs$
B $2t = r + s$
C $t = 2(r + s)$
D $\sqrt{t} = rs$

21. The number of arrangements of the letters of the word FECAFOOT is
A $8!$
B $\frac{8!}{2!2!}$
C $\frac{8!}{4!}$
D $\frac{8!}{2!}$

22. Given that $sin\theta = -\frac{\sqrt{3}}{2}$ and that $tan\theta > 0$, then
A $180° < \theta < 270°$
B $0° < \theta < 90°$
C $90° < \theta < 180°$
D $270° < \theta < 360°$

23. Consider the points $A(4, 7)$ and $B(-2, -1)$. The length of the line segment $[A, B]$ is equal to
A 10
B $10\sqrt{3}$
C 100
D $10\sqrt{10}$

24. $sin220°$ is the same as
A $sin40°$
B $cos40°$
C $-sin40°$
D $-cos40°$

25. Given that the two lines, $L_1: y = kx + m$ and

$L_2: y = 5x + n$, are perpendicular, where $k, m, and\ n$ are real constants, then

A $mn = -1$
B $k = 5$
C $5k = -1$
D $km = 5n$

26. The sum to infinity of the sequence 36, 12, 4.....is

A 52
B 54
C 60
D ∞

27. A computer can print 2100 words in 5 minutes. Working at the same rate, the number of the words that can be printed in $6\frac{1}{2}$ minutes is

A 2500
B 2730
C 2680
D 2940

28. 51.0596, expressed correct to 3 decimal places is

A 51.0
B 51.1
C 51.060
D 51.059

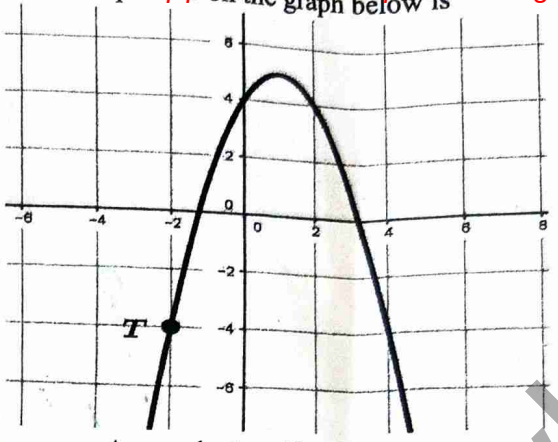
29. The value of the digit 3 in 4.035 is

A 0.03
B 300
C 0.003
D 30

30. Given that $x \leq 10$, then the symbol $\leq$ mean

A Less than
B Strictly less than
C Equal to
D Less than or equal to

31. The point T on the graph below is



A $(-4, -2)$
B $(-2, -4)$
C $(4, -2)$
D $(2, 4)$

32. Evaluating $16 - 2 \times 3$ gives

A 42
B 10
C 24
D 16

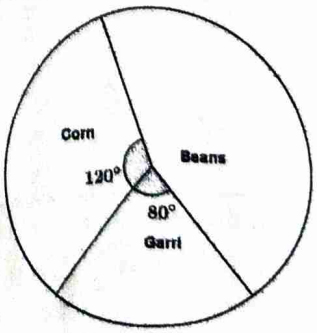
33. A point on the line $2y = 4x$ is

A $(4, 2)$
B $(1, 2)$
C $(2, 1)$
D $(1, 1)$

34. The coefficient of x in the expansion of $(2x - 1)(3x + 5)$ is equal to

A 7
B 6
C 5
D 4

35. Some three items in a store are represented as on the pie chart below.



If the weight of the Corn is 72kg, then the weight of the beans is equal to

A 96kg
B 160kg
C 48kg
D 80kg

36. The value of $15 - (3)^0 =$

A 12
B 15
C 14
D 16

37. The value of x in the equation, $-4(x-2) - 2x + 2 = -2$ is equal to

A 2
B -2
C 4
D 6

38. In figure 2 below, a shaded triangle with base length $4cm$ and height $7cm$ is circumscribed in a circle of radius 4cm and centered at O.

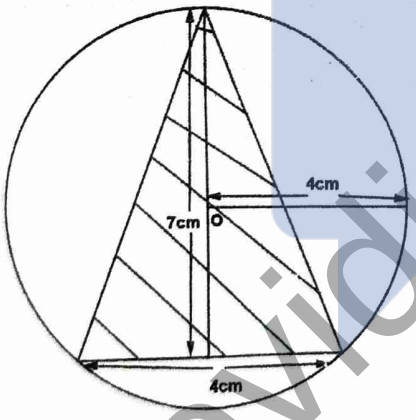


figure 2

The area of the unshaded portion of the circle in cm^2 is

A $16\pi - 28$
B $8\pi - 28$
C $16\pi - 14$
D $8\pi - 14$

39. Given that $f(x) = 2x + 6$, then the value of x when $f(x) = 4x$ is

A 1
B 2
C 3
D 6

40. The value of $\frac{7y+3}{3x}$ when $x = 2$ and $y = 3$ is

A 4
B $\frac{17}{9}$
C $\frac{10}{3}$
D 7

41. The figure 3 below, there are two similar triangles PQR and KLM., where $PQ = 6cm$ and $KL = 8cm$

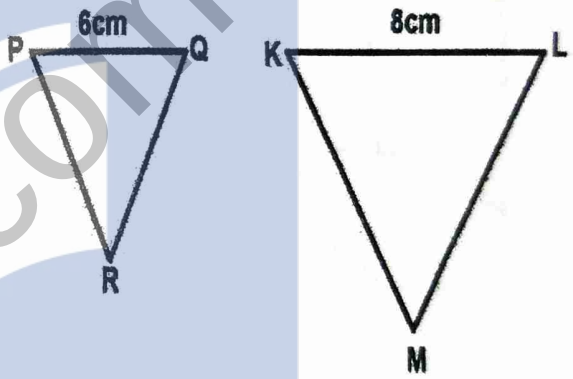


Figure 3

Given that the area of triangle PQR is $24cm^2$, then the area of triangle KLM in cm^2 is

A 40
B 36
C 32
D 30

42. The area A, of a triangle is given by $A = \frac{1}{2}bh$, then $b =$

A $\frac{2A}{h}$
B $2Ah$
C $\frac{1}{2}Ah$
D $\frac{b}{2A}$

43. Simplifying the expression $\frac{y^2-9}{2y+6}$ gives

A $\frac{y-3}{2}$

B $\frac{y-3}{4}$

C $\frac{y+3}{2}$

D $\frac{y-9}{8}$

44. The length of a rectangle is 3 times its width. Given that the width is $7cm$ then the area in cm^2 of the rectangle is

A 49

B 147

C 21

D 144

45. Consider the network diagram in figure 4 below.

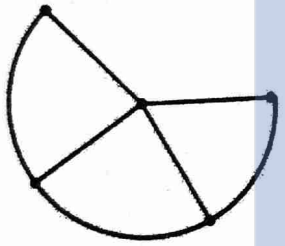


Figure 4

The number of edges is

A 4

B 5

C 6

D 7

46. The highest value amongst the following, $\frac{1}{3}$, 31%, $\frac{3}{10}$, 0.308 is

A $\frac{1}{3}$

B 31%

C $\frac{3}{10}$

D 0.308

47. The value of $\sqrt{\frac{1600}{0,1 \times 0,1}}$ is equal to

A 0.4

B 4

C 40

D 400

48. John can use 30 minutes in order to clear a yard. Jimmy can equally clear the yard in 20 minutes. The time taken by the two of them, working at their individual rates to clear the yard is:

A 10 minutes

B 12 minutes

C 15 minutes

D 50 minutes

49. The coefficient of p in the expansion of $(a+3p)^2$ is

A 3

B $6a$

C 9

D $2a$

50. There are 3 blue pencils, 5 green pencils, 2 black pencils and 6 red pencils in a drawer. The probability that a pencil taken at random from the drawer is either a blue or a red pencil is

A $\frac{3}{8}$

B $\frac{9}{16}$

C $\frac{3}{16}$

D $\frac{6}{8}$

END.

GO BACK AND CHECK YOUR WORK.