

STANDARD PRIMARY EXAMINATIONS (SPE)

SET ONE ASSESSMENT TERM TWO 2022

PRIMARY SEVEN



MATHEMATICS

Time Allowed: 2 HRS 30 MINUTES.

INDEX NO.

Random No.						Personal No.		

Candidate's Name:.....

Candidate's Signature:.....

School Random No:

District ID:

Read the following instructions carefully.

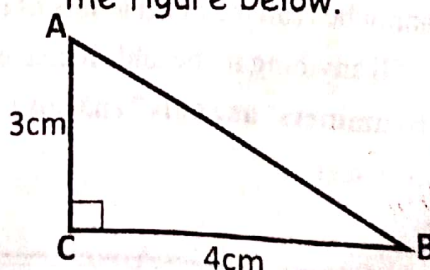
FOR EXAMINERS'
USE ONLY

1. Do not write your school or district name anywhere on this paper.
2. This paper has two sections: A and B.
Section A has 20 questions and section B has 12 questions.
3. Answer **all** questions. **All** answer to both section A and B. must be written in spaces provided.
4. All answers **must** be written using a **blue or black** ball-point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read may lead to **loss of marks**.
6. Do not fill anything in the table indicated:
"For Examiners' use only" and boxes inside the question paper.

QN.NO	MARKS	EXR'S NO
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 38		
29 - 30		
31 - 32		
TOTAL		

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SECTION A (2marks)

1. Workout : $1212 \div 4$	7. Think of a number, divide it by 2 and subtract 3 from it. The result is 5. Find the number.
2. Express 149 as Roman numerals.	8. Convert 250g into kilograms.
3. Given that $Q = \{2, 3, 5, 7\}$ List all the proper subsets in Set Q.	9. Prime factorise 72 and write your answer in subscript form.
4. The ratio of mangoes to apples in a basket is 3:5, if there are 56 fruits altogether, how many apples are in the basket?	10. Mukisa started revising at 11:50pm on Friday and stopped revising at 2:30am of the next day. For how long did he revise?
5. Find the square of the next number in the sequence 1, 4, 9, 16, _____	11. Find the total distance round the figure below.
6. Which integer is four steps to the left of +3?	

12. The Greatest Common Factor (G.C.F) of two numbers is 6 and their Lowest Common Multiple (LCM) is 36. If the first number is 12, find the second number.

13. Workout: $5 \div \frac{1}{4}$

14. Mutaaka bought a radio at sh.42,000 and sold it to Mukiro at Sh. 35,000. Calculate the percentage loss he made.

15. Use distributive property only to workout:
 $(70 \times 5) + (5 \times 30)$

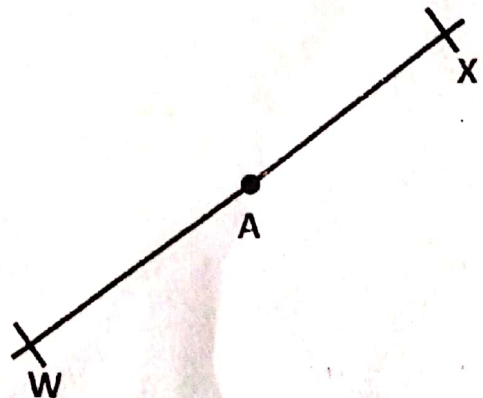
16. Elijah scored the following marks in E.O.T exams
MTC=70%, SCI = 65%,
ENG = 80% SST=70% and
R.E = 90%.
Calculate his average score.

17. Convert 2:40pm into a 24hour clock system.

18. Given that  represents 7 balls. Draw pictures to represent 105balls.

19. Find the area of a circular garden whose radius is 14m.

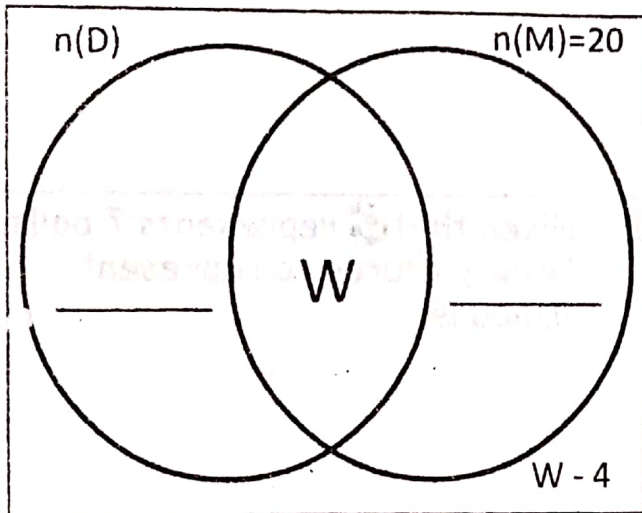
20. With the help of a ruler, pair of compasses and a very sharp pencil only, drop a perpendicular bi-sector through point A.



SECTION B (60marks)

21. In a class, 20 children enjoy music (M), 11 children enjoy dancing only, W children enjoy both Music and dancing while (W-4) children enjoy other activities but not music and dancing.

- a) Complete the venn diagram below. (2mks)
b) If 3 children enjoy swimming, how many children are in the class? (3mks)



- 22a) Given that $24_y = 14$
Find the unknown base (3mks)

- b) Given the number 7 3 5,
Complete correctly.

_____Tens _____Ones
_____Hundreds

(2mks)

23. In a family, $\frac{2}{5}$ are adults and the rest are children.

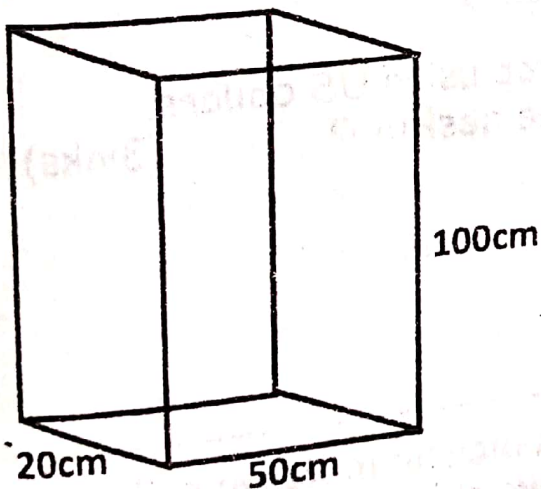
- a) How many people are in the family if there are 12 children? (3mks)

- b) Express the number of adults as a percentage of the whole family. (2mks)

24a) Convert 18km/hr into metres per second. (2mks)

b) A bus moved a distance of 180km in 180 minutes. Calculate the speed the bus was using in kilometres per hour. (3mks)

25. Study the figure below carefully and use it to answer the questions that follow.



a) Find the capacity of the tank. (2mks)

b) If James was asked to fill the tank above using $\frac{1}{2}$ litre cups, how many cups did he use to fill the whole tank? (2mks)

26. Namiro deposited sh.100,000 in a bank which gives an interest rate of 10% per year. After how many months will her account yield an amount of sh. 102,500? (4mks)

27. The table below shows the rates at which a forex bureau buys and sells United States dollars and Kenya Shillings in Uganda Shillings. Use it to answer the questions that follow.

Currency	Buying rate	Selling rate
1 US dollar	Ugsh. 3,500	Ug.Sh. 3,650
1Ksh	Ugsh.30	Ugsh.32

- a) Joan had Ksh.18250 and bought a desktop using US dollars. How many US dollars did she pay for the desktop? (3mks)

- b) If Newton had 400 dollars and bought a bicycle in Kenya shillings. What was the cost of the bicycle in Kenya shillings? (3mks)

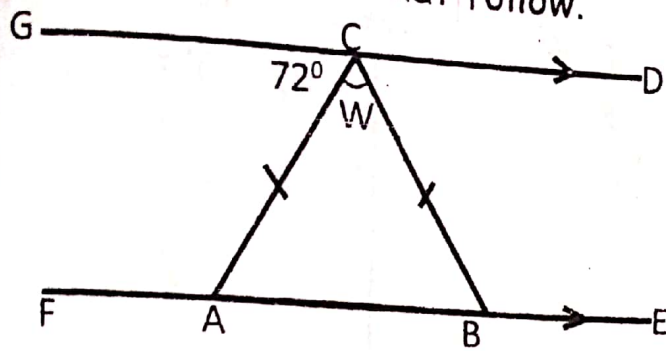
28a) Simplify:

$$\frac{a^2 \times a^3}{a^7}$$

(2mks)

b) Subtract $P + 2$ from $2P - 5$ (2mks)

29. Study the diagram below and use the information given to answer the questions that follow.



b) Find the size of angle marked.
(2mks@)

i) $\angle FAC$

a) Find the value of angle W.
(2mks)

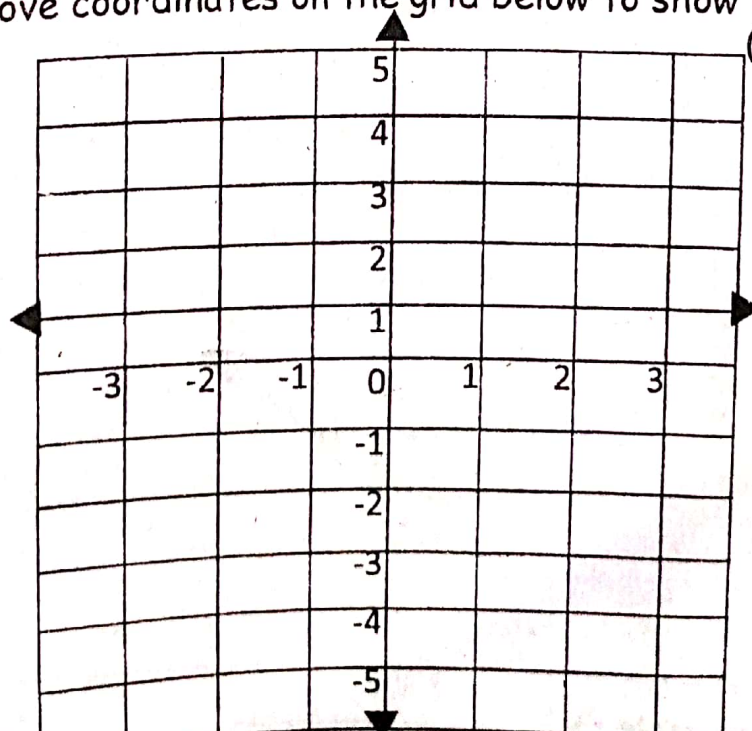
ii) $\frac{1}{2}$ of angle CBE

30. Given the equation of the line P is $Y = 3x - 1$ (2mks)

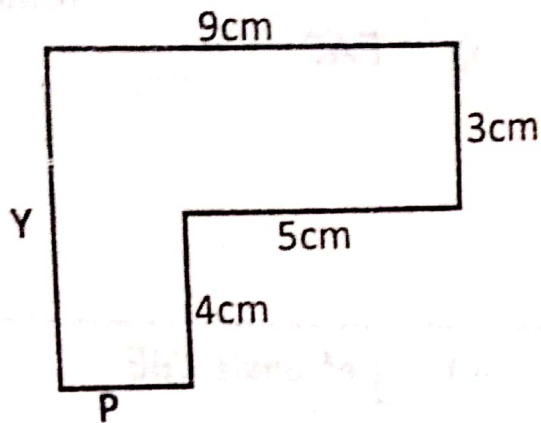
a) Complete the table below.

X	1	_____	0	_____
Y	_____	5	_____	-4

b) Plot the above coordinates on the grid below to show the line.
(4mks)



31. Study the figure below carefully and use it to answer the questions that follow. (1mk)



a) Find the value of P and Y (1mk)

i) $P =$

ii) $Y =$

b) Calculate the area of the whole figure. (3mks)

32. Using a pair of compasses, ruler and a very sharp pencil only, construct a triangle KPT where line $KP = 5\text{cm}$, angle $KPT = 105^\circ$ and line $PT = 3.5\text{cm}$. (4mks)

b) Measure angle PKT. (1mk)

END