DAFFODILS EXAMINATIONS BOARD

PRE PRIMARY LEAVING MOCKS II

2022

MATHEMATICS **VI**

me Allowed: 2 hours 30 minutes

Index No.	**Random No.**						**Personal No.**		

Candidate's Name: .....

Candidate's Signature: .....

School Random No: .....

District ID: .....

Read the following instructions carefully:

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. The paper has **14 printed pages**.
3. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using **blue** or **black** ball point pen or ink. All diagrams will be drawn in pencil.
5. Unnecessary **changes** in your work and handwriting that cannot easily 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.

FOR EXAMINERS' USE ONLY		
Qn. No.	**MARKS**	**EXR'S NO.**
1-10		
11-20		
21-30		
31-40		
41-50		
51		
52		
53		
54		
55		
TOTAL		

Turn Over

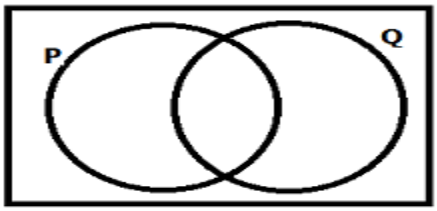
SECTION A: (40 Marks)

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

1. Work out: 7 4 + 3 3

2. Write in words 4,095.

3. On the Venn diagram below, shade the region that represents (PUQ)'.



4. Work out the greatest common factor (GCF) of 12 and 18.

5. Work out: $\frac{6}{9} - \frac{4}{9} =$

6. Adam bought a book for sh. 18,500. He later sold it and made a profit of sh. 1,500. Find Adam's selling price for the book.

7. Subtract (4k + 3) from (7k – 5).

8. Find the median of: 80, 64, 73, 91, 47, 64 and 58.

9. Work out:

	Weeks	**Days**
	5	4
-	2	6

10. Use a dial to work out 3 + 4 = ____ (mod 5).

Turn Over

11. Express 20.8 metres as centimetres.

12. Using a pair of compasses, a ruler and a pencil only, construct an angle of 120^0 in the space provided below.

13. Round off 7951 to the nearest hundreds.

14. Find the next number in the sequence below; 49, 36, 25, 16, _____

15. Work out: 5.4 – 9.7 + 6.6.

16. Bosco was facing west. He turned anti clockwise through an angle of 90^0. Find Bosco's new direction.

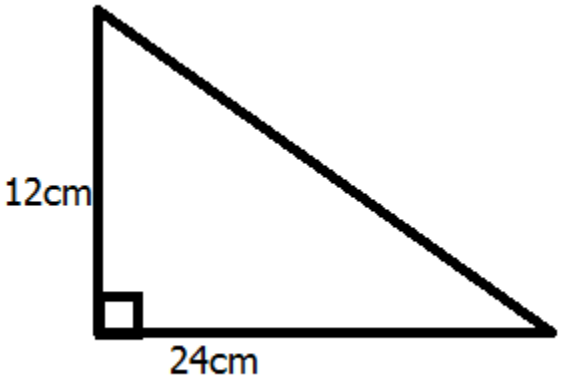
17. What afternoon time is shown on the clock face drawn below?

18. If set M = {c, o, a, t}. Find the number of subsets of set M.

Turn Over

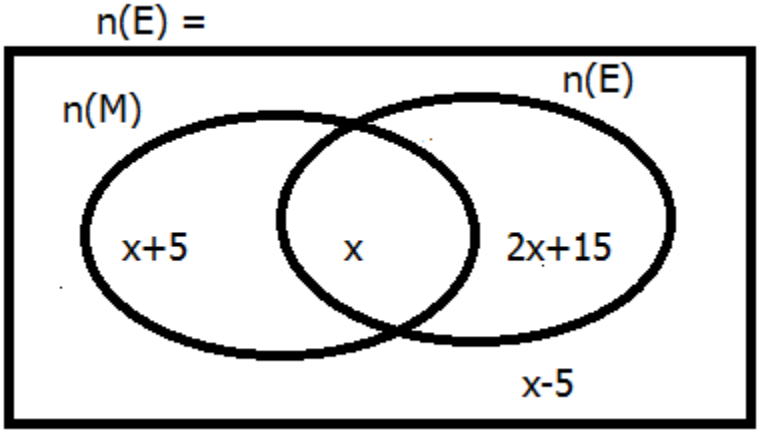
19. Solve: $2(x + 1) = 8$.

20. Work out the area of the triangle ABC below.



SECTION B: (60 Marks)

21. The Venn diagram below shows students who like math (M) and English(E) in a P7 class. Study it carefully and answer the questions that follow



a) If 50 students like only one subject. How many students like both subjects?

(3marks)

b) Find the probability of choosing a student at random who likes only English

(2 marks)

Turn Over

22. The table below shows Mrs. Kakeeto's shopping bill. Use it to answer the following questions.

ITEM	**QUANTITY**	**UNIT COST**	**AMOUNT**
Beans	3kg	Sh. 4000 per kg	Sh. ……
Maize flour	……kg	Sh. 1800 per kg	Sh. 4500
Salt	600g	Sh…… per kg	Sh. 900
TOTAL EXPENDITURE		Sh……	

(a) Complete the table above. **(4 marks)**

(b) If Mrs. Kakeeto remained with sh. 12,600 after paying for all the above items, how much money had she gone with?

(2 marks)

23. A school has 23 classrooms. Each classroom has 45 pupils

(a) How many pupils are in the school? **(2 marks)**

(b) All the pupils went for a study trip using 15 buses, each carrying the same number of pupils. How many pupils were in each bus?

(2 marks)

24. Gerald had 108 books. $^4/_9$ of the books are for Maths, ¼ are for English and the rest are for science.

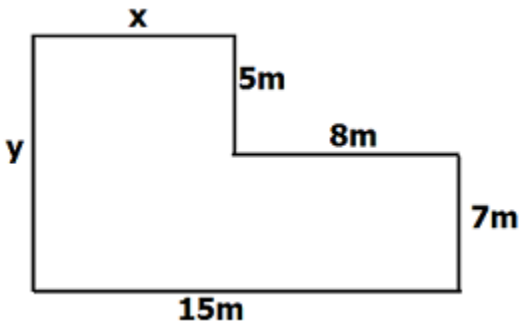
(a) How many more Maths books than English books had Gerald?**(3 marks)**

(b) How many science books did Gerald have? **(2 marks)**

25(a) Convert 102_{five} to base ten. **(2 marks)**

(b) Given the number 956.48, find the product of the value of 9 and the place value of 8.
(3 marks)

26. Study the figure below carefully and answer the questions that follow.



(a) Find the length: **(1 mark each)**

(i) Y (ii) X

(b) Work out the area of the figure above. **(3 marks)**

27. A motorist left town A at 9:00 a.m and reached town R at 11:00 a.m moving at a steady speed of 90km/hr.

(a) How far is town R away from town A? **(3 marks)**

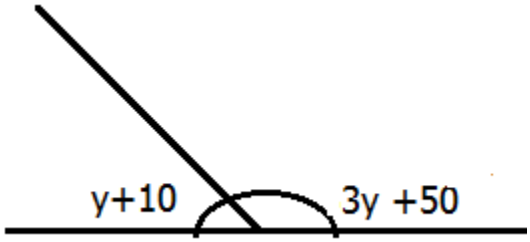
(b) On the return journey, he moved at a steady speed of 60km/hr. How long did he take to reach town A?
(2 marks)

28(a) Solve: $4(2x+3) = 2(3x - 2)$. **(3 marks)**

(b) Write down the solution set for $-3 < m < 4$. **(2 marks)**

29(a) If $2p^0$ and 46^0 are complementary angles, work out the value of P. **(2 marks)**

(b) Given the diagram below, find the value of k. **(3 marks)**



30(a) Today is Thursday. What day of the week will it be after 48 days? **(2 marks)**

(b) Solve for n in 2n – 3 =5 (finite 6). **(3 marks)**

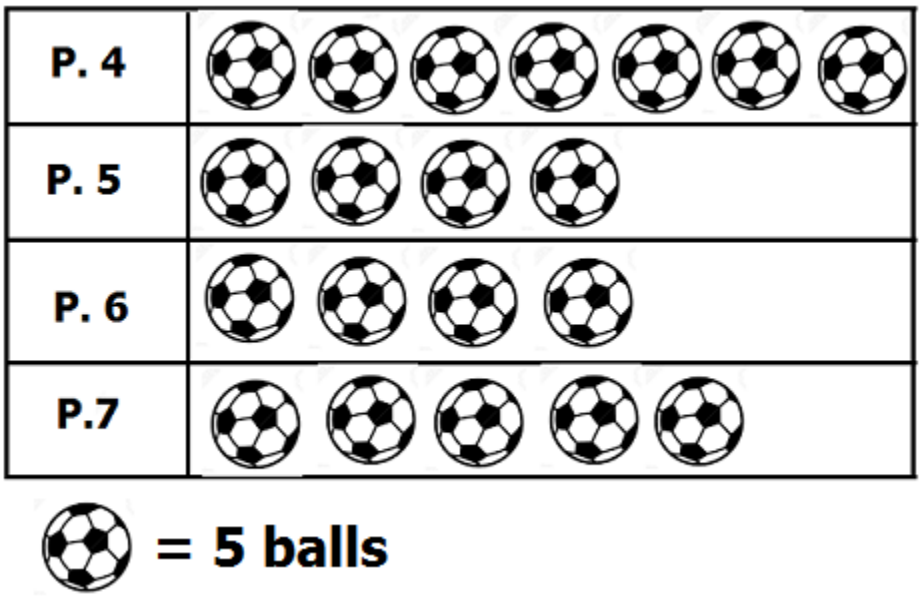
31(a). What number has been prime factorized to give; 2 x 2 x 3 x 5? **(2 marks)**

(b) List all the factors of 24. **(1 mark)**

(c) Find the LCM of 24 and 36. **(2 marks)**

Turn Over

32. The graph below shows the number of balls that were donated to different classes by the Guest of Honour on the sports day.



(a) Which class got the highest number of balls? **(1 mark)**

(b) How many balls did P.6 receive? **(2 marks)**

(c) Work out the average number of balls for each class. **(3 marks)**

END