MUSAB
END OF TERM ONE EXAMINATION - 2024
MATHEMATICS FOR PRIMARY SEVEN
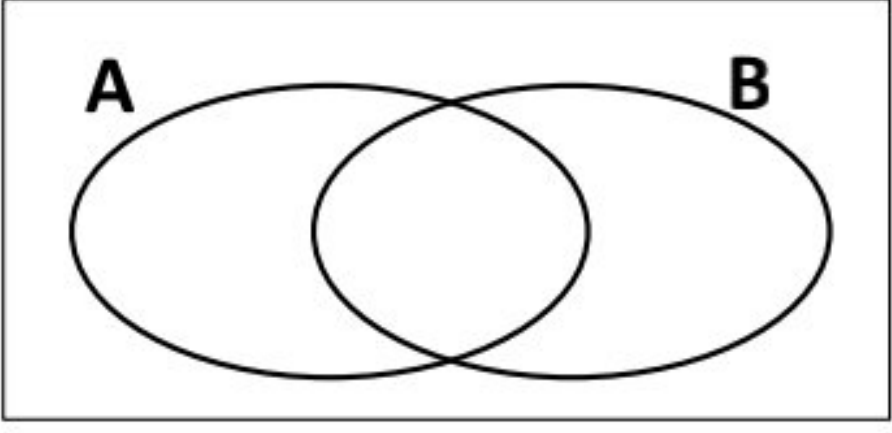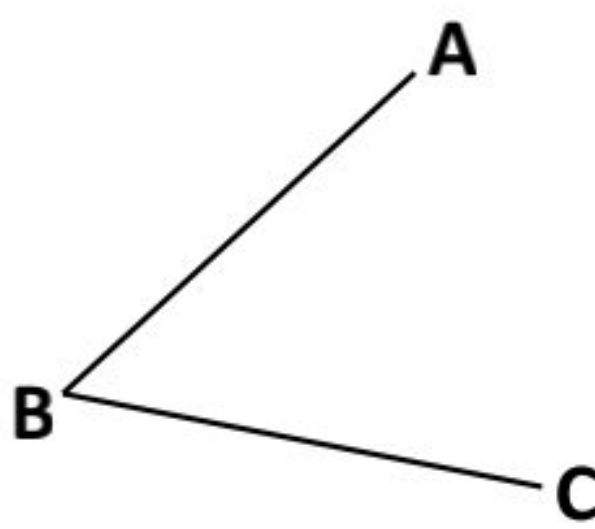### DURATION: 2 ½ HOURS
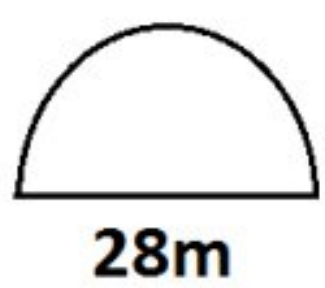
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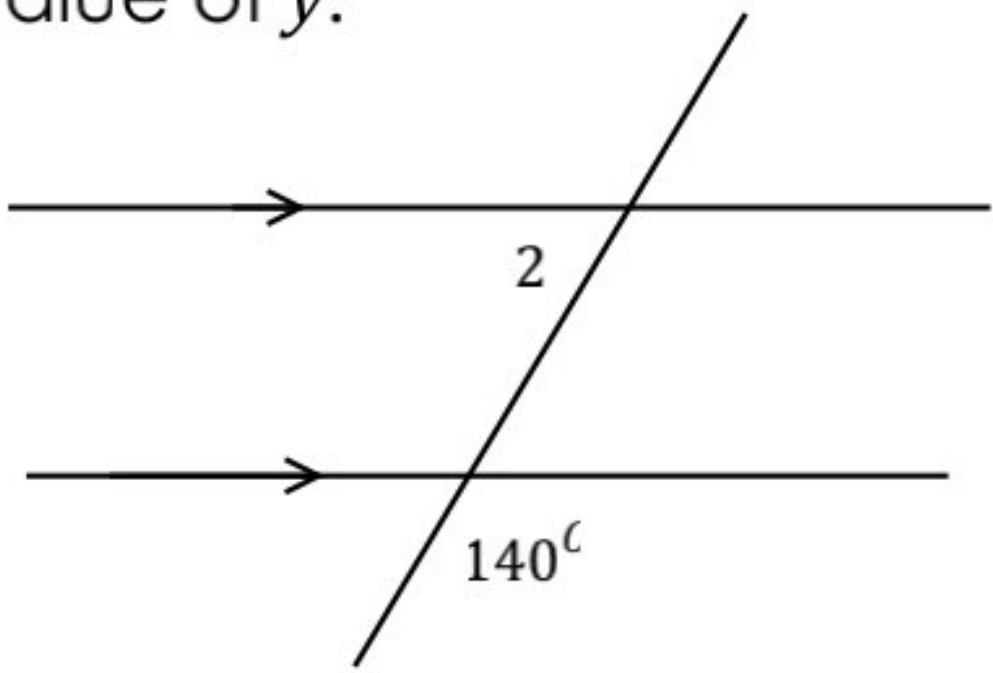
SCHOOL...

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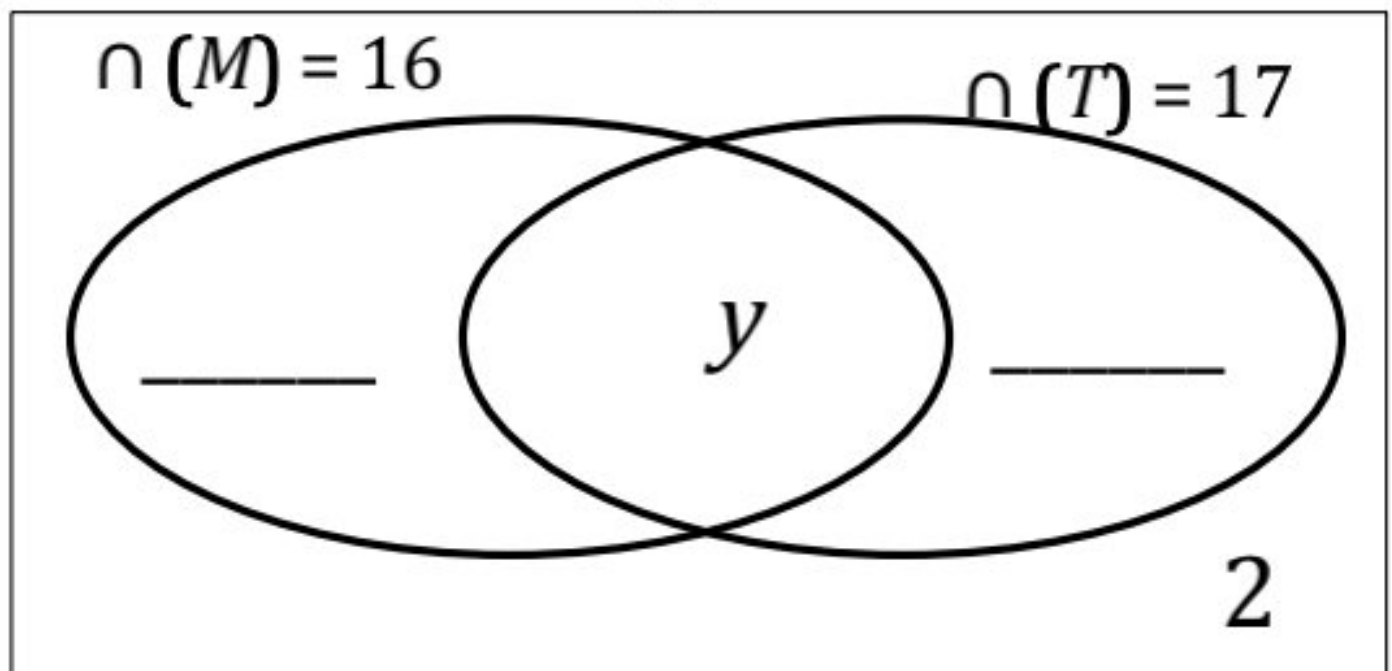
SECTION A: 40 MARKS

1.	Workout: 1 2 4 - 1 8 _____	2.	Shade $(A \cup B)^I$ in the figure below.
3.	Write nine hundred forty two thousand ninety five in figures.	4.	Find the next two numbers in the sequence below. 1, 4, 2, 5, 3, _____, _____
5.	Simplify: $^-6 - {}^-4$	6.	Express 400 metres as a ratio of 1km
7.	Express 13:30hrs to 12 hour clock system.	8.	A trader bought $1\frac{1}{2}$ dozen of books and sold each book at sh.2000 making a profit of sh.4000. Find the cost of all the books.

9.	Using pair of compasses and a ruler bisect the reflex angle ABC below.	10.	If ⊗ ⊗ represent 6 real balls, complete the table below.

9. Using pair of compasses and a ruler bisect the reflex angle ABC below.

A

B

C

10. If ⊗ ⊗ represent 6 real balls, complete the table below.

Number of balls		12
	_____	
Pictures	⊗ ⊗ ⊗	_____

11. Workout the perimeter of the shape below.

28m

12. Solve for m: $2m - 5 = 13$

13. In a box, there are 63 blue and red pens. The probability of picking a blue pen is $\frac{3}{7}$. How many red pens are in the box?

14. Use distributive property to workout: $(14 \div 5) + (76 \div 5)$

15. Round off 45.37 to the nearest tenth.

16. How many $\frac{1}{4}kg$ packets of sugar can be used to pack 12kg of sugar.

17.	Find the largest number which can divide either 24 or 42 and leaves on remainder in each case.	18.	In the figure below, find the value of y. 2 140^C
19.	An assembly started at 7:40a.m, if it took $1\frac{1}{2}$ hours at what time did it end.	20.	The base area of a cuboid is 240cm². Calculate the volume of the cuboid if its height is 30cm.

SECTION B:

21.	In a club of 30 members, 16 members like music (M), 17 members like Tennis (T), y members like both games and 2 pupils like neither of the two games. a) Complete the Venn diagram below. **(2 marks)** ∩ (Σ) = 30 ∩ (M) = 16 ∩ (T) = 17 _____ y _____ 2

	b) How many members like both games? **(2 marks)**
	c) What is the probability of picking a member at random who likes Tennis only? **(1 mark)**
22.	Alex, Jane and Alvin contributed a certain amount of money to buy a television in the ratio of 2:3:5 respectively. **(6 marks)** a) If Alvin contributed sh.150,000 more than Alex. How much did they buy a television? b) Express Jane's contribution as a percentage.

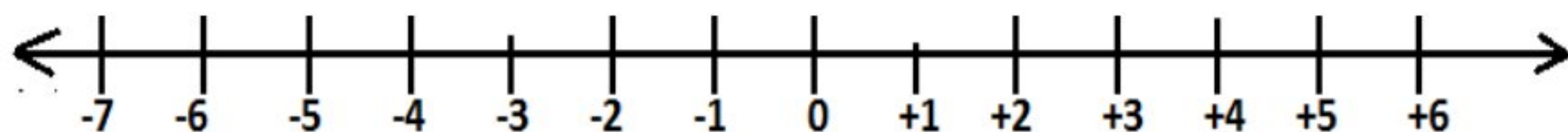|	
23.	A man withdraw some money from his account. He was given a

bundle containing twenty thousand shillings notes numbered consecutively from AZ002379 to AZ002478.

a) How many notes did he find in the bundle?   **(2 marks)**

b) Calculate the total amount of money the man withdrew. **(2 marks)**

24. a) Arrange +4, -1, 0, -3 and +6 in ascending order.   **(2 marks)**

b) Use the numbe rot workout ‾2 - ‾ 5 **(1 mark @)**

25. The table below shows marks obtained by P.7 pupils in a test.
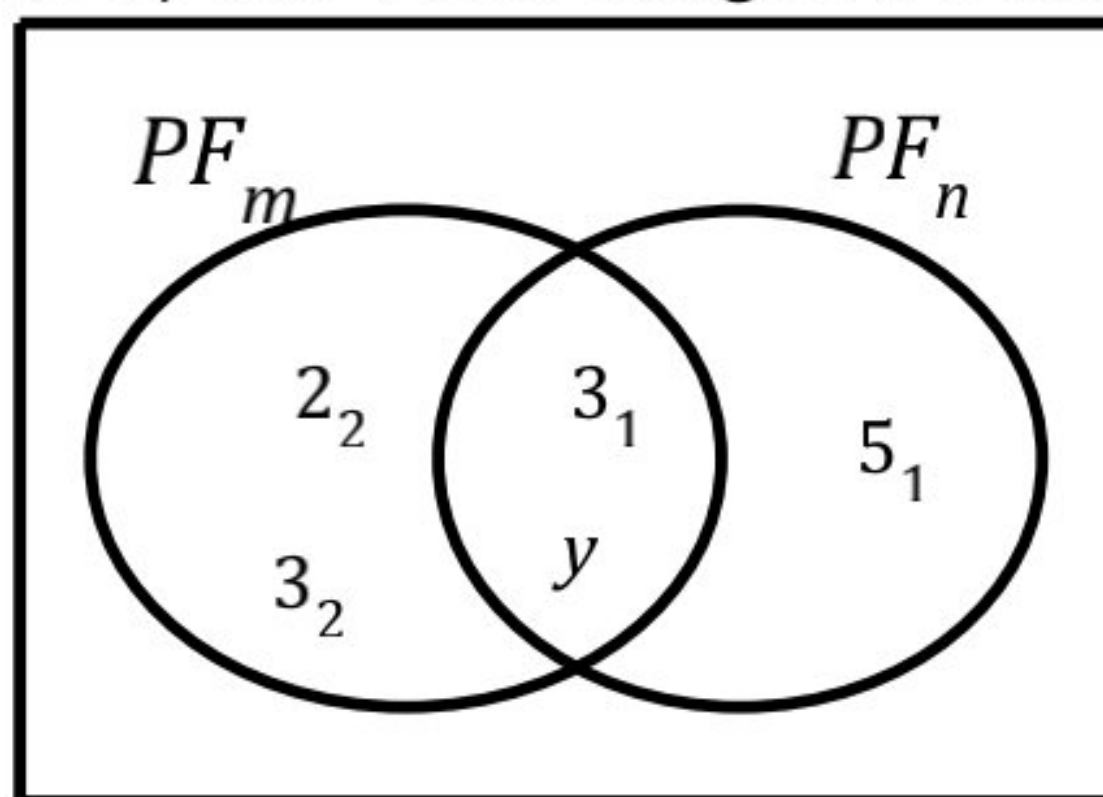
Marks scored	55	60	70	90
Frequency	2	4	1	3

a) How many pupils did the test?   **(2 marks)**

b) Find the median mark.   **(2 marks)**

c) How many pupils cored above average.   **(2 marks)**

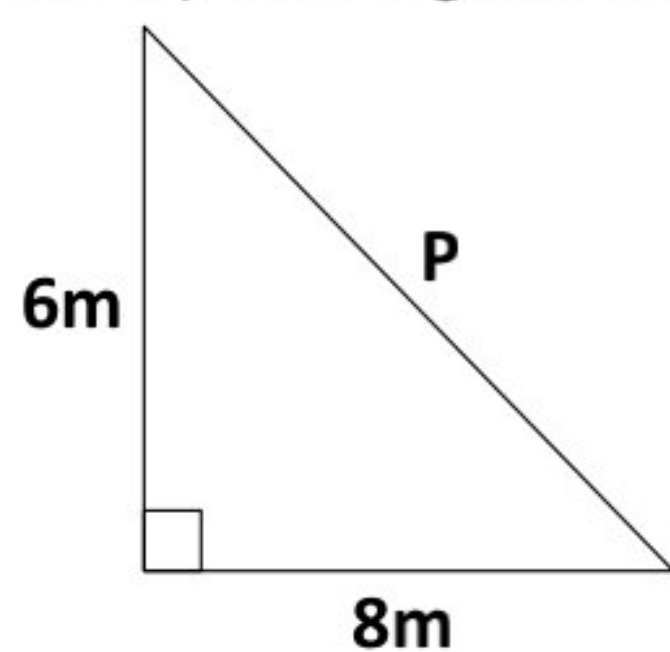26. Study the Venn diagram below and use it to answer questions.

a) Find the value of y if the LCM of m and n is 180.   **(2 marks)**

PF_m PF_n

2_2 3_1 5_1

3_2 y

	b) Find the value of m.
27.	a) A cyclist travelled for 3 hours from town A to town B at a distance of 420km. At what speed was he travelling. **(2 marks)** b) Express 180km/hr to m/sec. **(3 marks)**
28.	Study the figure below and use it to answer the questions that follow. a) Find the value of **P** in metres. **(3 marks)** 6m ... P ... 8m b) Calculate the perimeter of the given figure. **(2 marks)**

29.	a) Convert 243_{five} to base four. **(2 marks)**
	b) Find the value of k if, $1P3_{four} = 43_{six}$ **(3 marks)**
30.	Martin is thrice as old as Alice and the difference between their ages is 24 years. a) How old is Alice? **(2 marks)** b) Find their total age. **(1 mark)** c) How old will martin be after 5 years? **(2 marks)**

| 31. | Given the digits 4, 0, 3 and 1. |