PLE 2024

MATHS

SECTION A: 40 MARKS

*Answer **all** questions in this section.*

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

E-LEARN

ANALYSIS

1. Work out:
$$\begin{array}{r} 3\ 5 \\ \times\ 3 \\ \hline \end{array}$$

E-LEARN PRE PLE SET 6 QN 1

$$\begin{array}{r} 3\ 4 \\ \times\ 2 \\ \hline \end{array}$$

E-LEARN PRE PLE SET 5 QN 1

$$\begin{array}{r} 1\ 3 \\ \times\ 2 \\ \hline \end{array}$$

E-LEARN PRE MOCK SET 3 QN 1

$$\begin{array}{r} 1\ 0\ 5 \\ \times\quad 3 \\ \hline \end{array}$$

2. Write CXIV in Hindu Arabic numeral.

E-LEARN MOCK QN 2

2. Write XCVI in Hindu Arabic Numerals.

E-LEARN PRE MOCK SET 2 QN 3

3. Write CDLXII in Hindu-Arabic numerals.

3. Given that M= { b, a, t } write down all the subsets of set M.

E-LEARN PRE MOCK SET 4 QN 18

18. Given set P = {a, b, c}. How many subsets are in set P?

E-LEARN PRE PLE SET 3 QN 4

4. Given D = {4, 0, 5, 8}. List all proper subsets of D.

4. Find the fraction equivalent to $\frac{4}{7}$

5. Expand 3405 using powers of ten.

E-LEARN PRE PLE SET 8 QN 10

10. Expand 34.98 using powers of ten

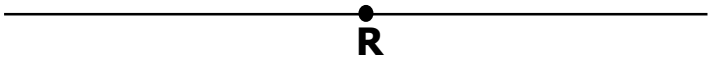
E-LEARN PRE PLE SET 9 QN 17

17. Expand 97.08 using powers of 10.

E-LEARN MID TERM 1 QN 28(a)

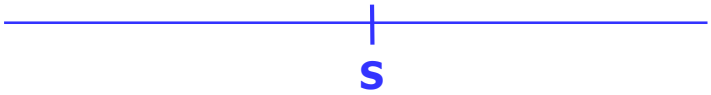
28. (a) Expand 2345 using exponents.

6. Using a ruler and a pair of compasses only, construct a right angle at point **R**



E-LEARN MID TERM 1 SET 2 QN 8

8. Using a ruler and a pair of compasses only, construct an angle of 90^0 at point **S**



7. Given that $a= 3, b = 1$ and $n = 2$, find the value of $2a^nb$

8. Find the next number in the sequence:

2, 3, 6, 11, 18..... (addition of odd numbers)

E-LEARN MID TERM 1 SET 2 QN 4

1, 3, 5, 7 ,..... (odd numbers)

9. It takes Ankunda 35 minutes to walk from school to home. If she arrived home at 12:20 p.m, what time did she leave school?

E-LEARN PRE PLE SET 5 QN 11

11. A football match that lasted for 3 hours ended at 6: 40 pm. At what time did it start?

E-LEARN PRE PLE SET 5 QN 7

7. A double forty-five minute lesson ended at quarter to 1:00pm. When did it start?

10. Otunu sold a goat and made a profit of sh 18,000. The cost price of the goat was 90,000. Calculate Otunu's percentage profit.

11. Find the largest number that divides both 24 and 18 without a remainder.

E-LEARN WELCOME TO P.7 QN 7

7. Find the G.C.D of 8 and 12.

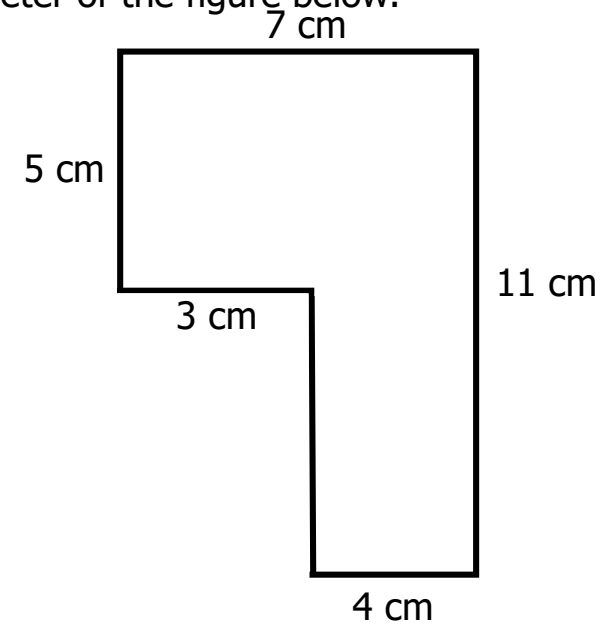
12. Work out: 42 – 21 + 3

E-LEARN MID TERM 1 SET 2 QN 13

13. Workout: 12 – 6 +3

13. The range of a set of scores is 23. The highest score is 76. Find the lowest score.

14. Find the perimeter of the figure below.



QUESTIONS ABOUT FINDING THE PERIMETER

E-LEARN WELCOME TO P.7 QN 30(ii)
(ii) Find the perimeter of the figure.
E-LEARN PRE MOCK SET 2 QN 24
24 Find the perimeter of the papers.
E-LEARN PRE MOCK SET 4 QN 10
10. Workout the perimeter of the square garden.
E-LEARN PRE PLE SET 3 QN 31(b)
31(b) Calculate the perimeter of the quadrilateral formed.

15. A school cook requires 24 kg of maize flour to feed 120 pupils. Find in grammes, the amount of maize flour the cook would require to feed 3 pupils.
E-LEARN PRE PLE SET 1 QN 8
8. How many 250 gramme packets can be obtained from 2 kilogrammes of rice?
E-LEARN PRE PLE SET 4 QN 9
9. How many 400 gram packets of salt can be obtained from 20 kg of salt?
E-LEARN PRE PLE SET 6 QN 13
13. Convert 0.75kg to grams.

16. Akiiki bought a suit at Kenya shillings (Ksh) 11,500. If the exchange rate was 1 Ksh = Ug. Sh 32, how much money would Akiiki have paid for the suit in Uganda Shillings(Ug.sh)
E-LEARN MID TERM 1 QN 20

20. A tourist from USA entered Uganda with $8000. He changed it to Uganda shillings at the rate of Ushs.3700 per US$. How much did he get in Uganda shillings?

17. Solve: $3 - 2y < 9$

E-LEARN PRE PLE FINAL ITEM QN 20

20. Solve for q: $6 - 3q < 21$

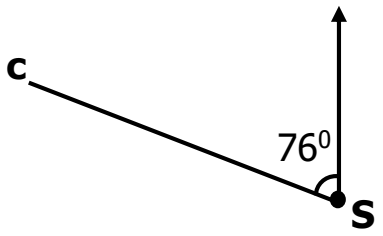
E-LEARN PRE PLE SET 7 QN 23(a)

23(a). Solve and write the solution set for: $3-2m < 15$.

E-LEARN END OF TERM 1 QN 29(a)

29(a). Solve $2x-3<3$

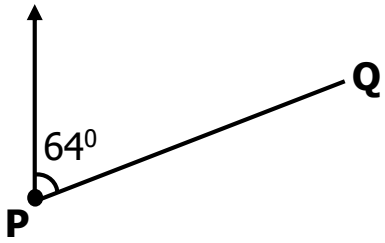
18. The diagram below shows the position of a church (**c**) from a school (**s**)



Find the bearing of the church from the school.

E-LEARN PRE PLE SET 1 QN 20

20. In the figure below, find the bearing of P from town Q



E-LEARN PRE PLE SET 8 QN 18

The direction of town **A** from town **B** is S65°W. Find the bearing of town B from town **A.**

19. If today is Monday and a cake baked today can expire after 16 days, what day of the week will the cake expire?

E-LEARN PRE PLE SET 3 QN 12

12. If today is a Tuesday, what day of the week will it be 48days after tomorrow?

E-LEARN PRE PLE SET 6 QN 12

12. Today is the third day of the week, what day of the week will it be after 42 days from now?

E-LEARN PRE MOCK SET 2 QN 12

12. An academic term started on a Monday and after 38 days, Midterm examination was written. On which day did the midterm examination start?

20. One morning, the temperature on top of a mountain was -3^0C. The temperature rose by 8^0C in the afternoon. Find the afternoon temperature.

E-LEARN PRE PLE SET 3 QN 8

8. The temperature in Nevada at 7:00 a.m. was -6°c. It increased to 4°c. What was the increase in temperature?

E-LEARN MOCK QN 31(b)

31. (b) The base of the mountain is at 5486 m below the sea level and the peak is at 4201 m above the sea level. What is the full height of the mountain?

SECTION B: 40 MARKS

Answer **all** *questions in this section.*

Marks for each question are indicted in the brackets.

21. Work out: $\frac{2.92 - 2.36}{0.068+0.012}$ *(04 marks)*

E-LEARN PRE PLE SET 1 QN 26(b)

26(b) Work out: $\frac{0.08 + 0.2}{0.9 - 0.5}$

E-LEARN PRE MOCK SET 1 QN 21(b)

21(b)Work out: $\frac{0.28 \times 3.6}{0.7 \times 0.6}$

E-LEARN PRE MOCK SET 4 QN 26(a)

26(a) Work out: $\frac{3.6 \times 0.3}{1.2 \times 0.09}$

E-LEARN PRE PLE SET 4 QN 26(a)

26(a) Work out: $\frac{0.8 \times 0.6}{2.4 \times 0.4}$

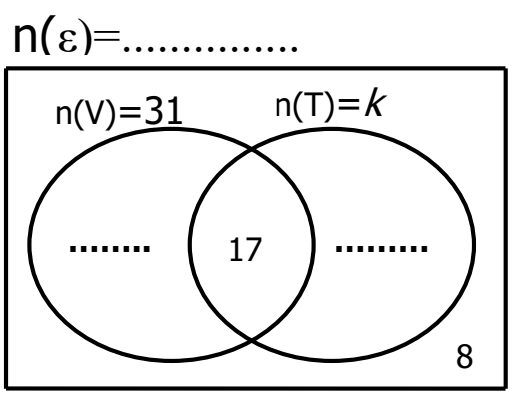
E-LEARN PRE PLE SET 9 QN 24(a)

24(a) Work out: $\frac{0.45 \times 0.03}{0.03 \times 0.5}$

22. In a class, 31 pupils like volleyball (V) and *k* pupils like table tennis (T).
17 pupils like both games while 8 pupils don't like any of the two games.
The number of pupils who like table tennis is only twice the number of those who do not like any of the two games.

(a) Use the given information to complete the Venn diagram below.

(04 marks)

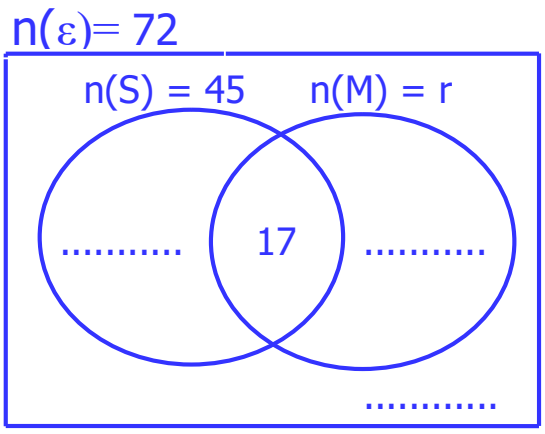


(b) Find;

(i) the value of *k* *(01 mark)*

E-LEARN PRE MOCK SET 2 QN 23

23.



(ii) the probability that a pupil picked at random from the class likes both volleyball and table tennis. *(01 mark)*

23. A taxi and a bus were hired to transport people for a function. The taxi transports 14 people when full while the bus transports 69 people when full. The taxi made five trips and the bus made one trip. The taxi and the bus made the trips when full.

E-LEARN PRE PLE SET 5 QN 23(b)

23(b) A taxi carrying 8 adults and 4 children left new taxi park heading to Mukono. If each adult and each child paid a fare sh.5000 and sh.3000 respectively, how much money did the driver collect in total?

E-LEARN PRE PLE SET 6 QN 23

23. A farmer collects 5400 eggs a day on his farm and packs them on trays which carry 30 eggs each. If he used a motorcycle to carry 20 trays per trip to the market, how many trips will the motorcycle make in order to transport all the eggs?

(a) Find the total number of people that were transported to the function.

(b) The taxi owner was paid sh 56,000 per trip. Calculate the amount of money that was paid for each person. *(02 marks)*

24. Given that $202_p = 1221_{three}$, find the value of p. *(04 marks)*

E-LEARN PRE PLE SET 4 QN 22(b)

22(b) If $203_n = 53_{ten}$, find the value of n

E-LEARN MOCK QN 29(a)

29(a) Given that $23_m = 111_{three}$. Find the base represented by m.

E-LEARN PRE PLE SET 7 QN 25(b)

25(b) Given that $24_r = 14_{three}$. Find the unknown base r.

E-LEARN PRE MOCK SET 2 QN 25(b)

25(b) Find the unknown base m $43_m = 102_{five}$,.

E-LEARN PRE MOCK SET 4 QN 30(a)

30(a) If $44_m = 35_{nine}$, find base m

E-LEARN END OF TERM 1 QN 6

6. Given that $17_n = 15_{ten}$. Find the base represented by n.

E-LEARN MIDTERM 1 QN 21(b)

21(b) Given that $203_y = 35_{ten}$. Find base y

25. The table below shows the amount of money Rukia paid for food stuff to a businesswoman after she was given a discount of sh 2,200.

(a) Study and complete the table. *(03 marks)*

item	**Quantity**	**Cost per kg**	**Amount**
Rice	4 kg	Sh 3,800	sh .....
Beans	....kg	Sh 5,000	sh 30,000
Irish potatoes	0.5 kg	Sh.....	Sh 1,600
Total			**sh 46,800**

(b) Find how much money Rukia would have paid without the discount.

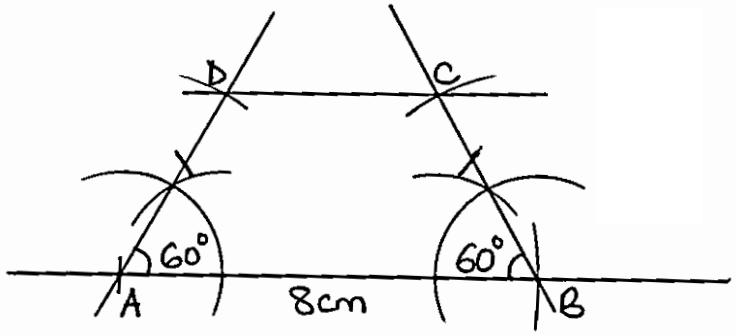
E-LEARN PRE PLE SET 7 QN 29

Denomination	**Number of notes**	**Amount**
sh 1,000	20	**sh** 20,000
sh 2,000	15	**sh** .....
sh 5,000	.....	**sh** 75,000
sh	5	**sh** 50,000
sh	4	**sh** .....
Total		**sh 375,000**

26. (a) Using a ruler and a pair of compasses only, construct a trapezium ABCD in which line AB = 8cm, angle DAB =angle ABC = 60^0 and line AD = 3cm. *(04 marks)*

E-LEARN PRE PLE SET 1 QN 30

30 (a) Using a ruler and a pair of compasses only, construct a quadrilateral ABCD such that side AB = 8 cm, angle DAB = angle ABC = 60^0 and side AD = BC = 4cm.

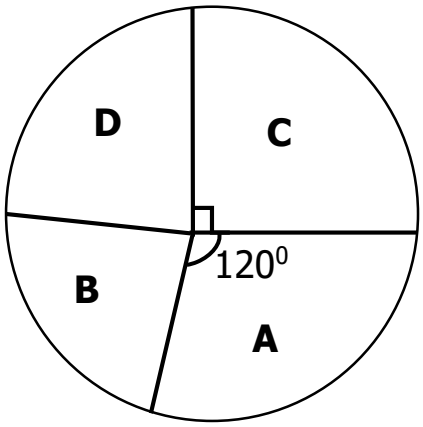


(b) Measure angle ADC .....

(01 marks)

27. A motorcycle tyre made 40 complete turns to cover a distance of 5280 cm calculate the radius of the tyre. ($Use\ \pi = \frac{22}{7}$) *(04 marks)*

28. The pie chart below represents the population of four towns **A**, **B**, **C** and **D.** The population of town **A** is 3000 people and that of town **B** IS 1800 people. Study the pie chart and use it to answer the questions that follow.



Calculate the population of :

(a) town **C** *(04 marks)*

(b) town **D** *(02 marks)*

E-LEARN PRE PLE SET 8 QN 29
E-LEARN PRE MOCK SET 1 QN 27
E-LEARN PRE PLE SET 1 QN 28
E-LEARN PRE PLE SET 7 QN 32

29. (a) Solve $\frac{5t-6}{2} = t + 12$ *(02 marks)*

E-LEARN PRE PLE SET 8 QN 27

27. (a) Solve for p : $\frac{1}{2}$ (4p-2)=p + 2

(b) Subtract (*2m - 3*) from (*5m + 2*) *(02 marks)*

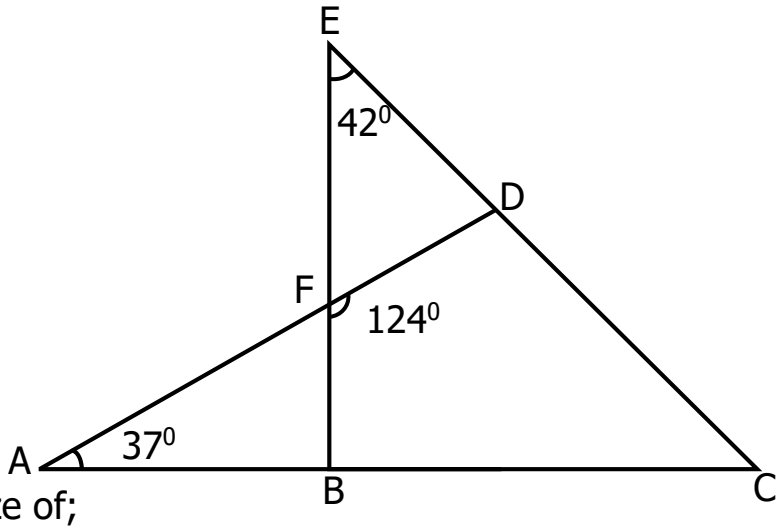
E-LEARN PRE PLE SET 4 QN 8

8. Subtract $(2x - 3)$ from $(4x - 6)$.

E-LEARN PRE PLE SET 9 QN 31(a)

31(a) Subtract (a+ 4) from (2a – 7)

30. In the diagram below, angle DAC = 37^0, angle BEC = 42^0 and angle BFD = 124^0. Study the diagram and answer the questions that follow.

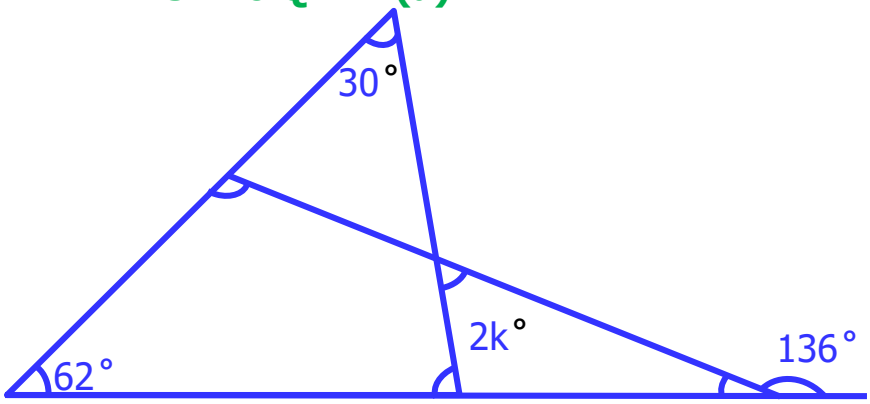


Find the size of;

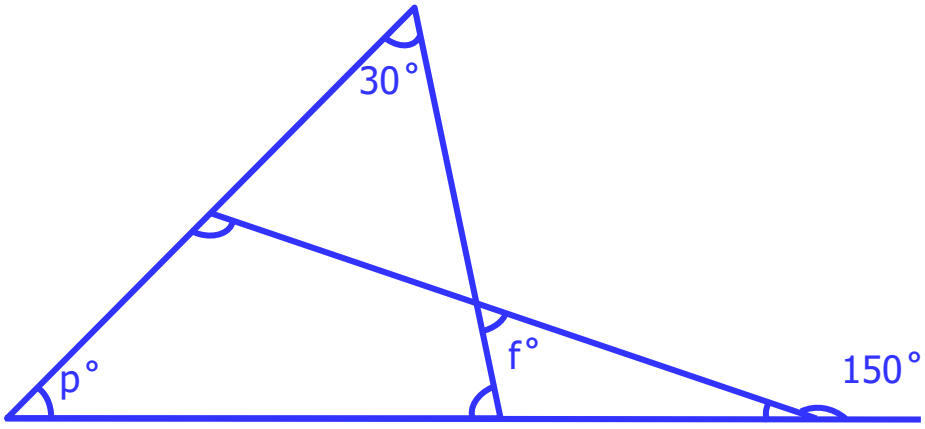
(a) angle EBC. *(03 marks)*

(b) angle DCA. *(02 marks)*

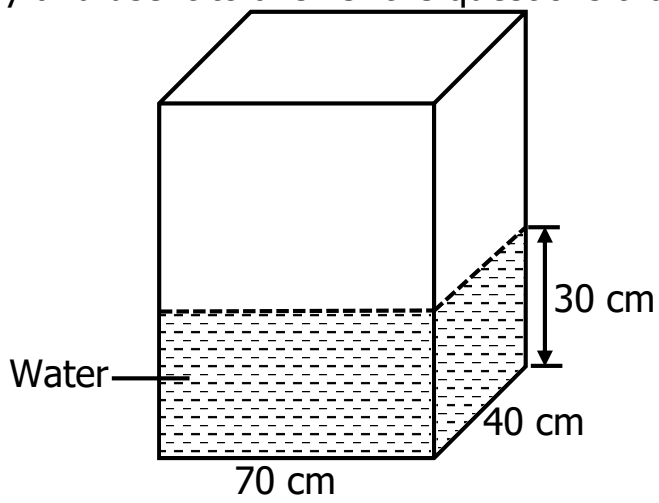
E-LEARN PRE PLE SET 6 QN 27(a)



E-LEARN PRE PLE SET 7 QN 26(a)



31. The diagram below shows a tank with a rectangular base containing some water. Study and use it to answer the questions that follow.



(a) Calculate the volume of the water in the tank. *(02 marks)*

(b) If 28 litres of water was removed for washing clothes, calculate the height of the water that remained in the tank. *(04 marks)*

E-LEARN PRE PLE SET 7 QN 31

E-LEARN PRE PLE FINAL SET QN 15

E-LEARN PRE MOCK SET 3 QN 17

32. A motorcyclist left home for town at 8:00 a.m. riding at a speed of 40 km/h. after 30 minutes, he got a flat tyre which took him 45 minutes to repair. The distance between the home of the motorcyclist and town is 68 km.

(a) Find the distance the motorcyclist had covered before he got a flat tyre.

(02 marks)

(b) Calculate the speed at which the motorcyclist had to ride in order to reach town at 10:00 a.m. *(04 marks)*

E-LEARN PRE MOCK SET 4 QN 28(b)

28. Kintu left Hoima at 8:30 a.m. and travelled to Kampala for 4 hours at an average speed of 60 km/h. He stayed in Kampala for 30 minutes and then returned back to Hoima.

(a) At what time did Kintu leave Kampala?

(02 marks)

(b) Calculate the speed he used on the return journey if he reached Hoima at 6:00 p.m.

(04 marks)

E-LEARN PRE PLE SET 1 QN 29

29. A motorist started a journey of 109 km at 8:20 a.m. riding at 30 km/h. At 9:50 a.m., his motorcycle broke down and the repair took him half an hour. At what speed did the motorist ride after the repair if he reached his destination at 12:20 p.m.?

(04 marks)

E-LEARN PRE MOCK SET 1 QN 24

24. Tr. Keith drove from Bulo to Mpigi for 3 hours at a steady speed of 60km per hour. He left Mpigi at 11:00am and drove back to Buli on the same road at a steady speed of 90km/hr. At what time did Tr. Keith reach Bulo?

(04 marks)

E-LEARN PRE MOCK SET 2 QN 31

31. The distance from Mbarara City to Kampala City is 290 km.

(a) At what speed did the driver use to cover the journey if he left Mbarara at 7: a.m. and reached Kampala at 12:00 noon?

(03 marks)

(b) On the return journey, the driver left Kampala at 5:00 p.m. driving at an average speed of 60 km/h. At what time did he arrive in Mbarara City?

(03 Marks)

CONCLUSION:

We managed to cover the largest percentage of **PLE MATHEMATICS 2024** in our **E-learn P.7 exams.**
Some questions were exact, others related and the rest required similar approach from the different exams that we had. Congratulations to those who trusted us!
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