E-LEARN PLE 2025 MATHS ANALYSIS

1. Write 5,326 in words.

PRE MOCK SET ONE QUESTION 2

Write 9,416 in words.

PRE PLE SET SEVEN QUESTION 2

Write 9,096 in words.

MID TERM ONE QUESTION 2

Write 242 in words.

2. Use the symbol =, < or > to complete the statement:

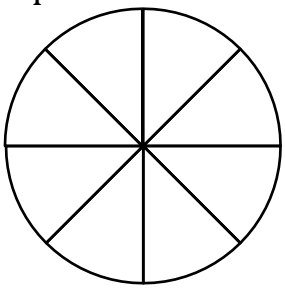
$^{-}3$ ..... $^{+}3$

PRE PLE SET 2 QUESTION 10

Use the symbol >, < or =, complete the statement below:

-4 × 3 ..... -2 × 3

3. Shade $\frac{1}{4}$ of the diagram below.



PRE PLE SET 2 QUESTION 9

Rose scored 8 marks in a test marked out of 10. Shade the diagram below to represent the marks failed.



4. Convert 1,560 grammes to kilogrammes.

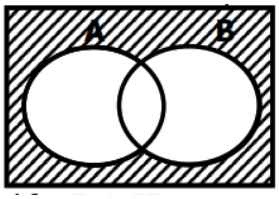
PRE PLE SET 2 QUESTION 5

Convert: 2,100 grammes to kilogrammes

5. Given that Ɛ = {a, b, c, d, e, f, g, h}, M = {a, b, e, f} and K = {b, d}, find n(M U K)′.

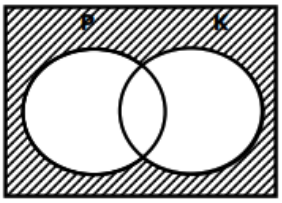
PRE MOCK SET 4 QUESTION 9

Describe the shaded part of the Venn diagram. (A U B)′



PRE PLE SET 1 QUESTION 13

Describe the shaded part of the Venn diagram. (P U K)′



6. Find the next number in the sequence:

128, 64, 32, 16, **.....**

Many related questions

7. Using a protractor, draw an angle of 85° in the space below.

Many related questions

8. Round off 37,594 to the nearest thousands.

Many related questions

9. There were 6,625 people who attended a football match. Out of this number, 5,879 were adults and the rest children. Calculate the number of children who attended the football match.

10. Work out: (25 × 26) + (24 × 25).

11. Given that $a = \frac{1}{2}$ and $b = 12$, find the value of $8a + ab$.

PRE PLE SET 2 question 24(a)

Given that a= −3, b = 2 and c = 1. Find the value of a/b + a/c

Welcome to P.7 question 15

Given that a = 4, b = 3 and c = 10. Find the value of (b + c) − a

12. Atim took 200 oranges to sell in a market. She sold every 4 oranges for sh 1,500. Find the amount of money she got from selling all the oranges.

PRE PLE FINAL SET QUESTION 16

A farmer sold 360 eggs at sh 9,000 per tray. How much money did he get?

PRE MOCK SET 3 QUESTION 30(b)

A woman sells tomatoes in heaps of eights and fours. A heap of eight tomatoes costs sh 500. If she had 12 heaps of four tomatoes and 15 heaps of eight tomatoes,
How much money did she get after selling all the tomatoes?

PRE PLE SET 2 QUESTION 11

Andrew's cows give 12000 millilitres of milk per day. If Andrew sells each litre at sh 1600, how much does he earn per week?

PRE PLE SET 7 QUESTION 15

A piece of cloth measures 2.75metres. A salesman decided to sell it in pieces. How much money did he make?

13. Find the median of the following numbers; 6, 13, 7, 11, 15, 9.

PRE PLE SET 2 QUESTION 11

A teacher recorded the attendance of pupils on a certain week as shown: 30, 35, 33, and 35. Find the median number of pupils who attended that week.

14. Peter is twice as old as Abdul. The sum of their ages is 72 years. Find the age of Abdul.

PRE MOCK SET 3 QUESTION 20

Amina is thrice as old as Anita. Their total age is 52 years. How old is Anita?

PRE PLE SET 3 QUESTION 16

Edson is three times as old as Elias. Given that the product of their ages is 75 years, how old is Edson?

PRE PLE SET 4 QUESTION 29

Fauzia is 2 years older than Faridah. Fatumah's age is half that of Faridah. The total age of the three daughters is 27 years. How old is Fauzia?

WELCOME TO P.7 QUESTION 28

Wanyana is 8 years older than Jorem. In 4 years time, their total age will be 24 years. a) How old is Jorem now?

15. A man borrowed sh 2,000,000 from a bank. After 2 years, he paid an interest of sh 720,000. Calculate the interest rate per year.

PRE PLE SET 6 QUESTION 18

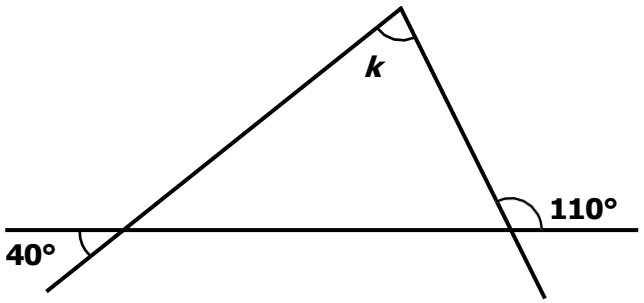
A man borrowed sh 3,000,000 from a bank. After 2 years, he returned a total amount of sh 4,260,000 to the bank. Calculate the interest rate per annum the man was charged.

16. Annet visited her aunt in March, 2025. She will visit her again after 16 months. Find the month and the year Annet will visit her aunt.

PRE MOCK SET 4 QUESTION 15

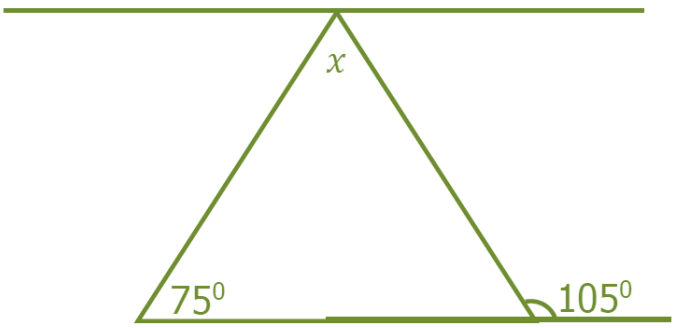
A teacher was preparing the end-of-term two Mathematics paper. She realized that she started setting the paper 46 days ago. If today is Thursday, on which day of the week did she begin setting the paper?

17. In the diagram below, find the value of *k*.



PRE PLE SET THREE QUESTION 9

In the triangle below, find the value k



18. A teacher made a rectangular chart 85 cm long and 60 cm wide. The teacher fastened a tape along the edges of the chart. Find the length of the tape used.

PRE PLE SET 1 QUESTION 6

Calculating the distance covered by a rat that ran round a rectangular block.

PRE MOCK SET 04 QUESTION 7

Finding a value using the total length of a copper wire forming a composite shape (Perimeter)

19. The table below shows the uniform time intervals at which a nurse is to check on a patient in a hospital ward.

Interval	1st	2nd	3rd	4th	5th
Time	7:30 a.m.	9:50 a.m.	12:10 p.m.		4:50 p.m.

Find the time when the nurse will check on the patient in the 4th interval.

PRE MOCK SET 2 QUESTION 31(a)

At the Grace school, two bells are rung at the interval of 50 minutes and 40 minutes respectively. If they rung at 8:00am, At what time will they be rung together again?

AND MANY OTHER RELATED QUESTIONS

20. Fatuma rolled a die once and observed the outcome. State the probability that the face on top shows a factor of 3.

PRE PLE SET 3 QUESTION 6.

A dice is tossed once. What is the chance of a square number showing up?

PRE MOCK SET 2 QUESTION 9

A fair dice is tossed once. Find the probability that the number that appears on top is a triangular number.

SECTION B: 60 MARKS

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

Marks for each question are indicated in the brackets.

21. (a) Find the value of *n* and *m* in the base five addition.

(*02 marks*)

$$\begin{array}{r} 1m2_{\text{five}} \\ +\ 224_{\text{five}} \\ \hline 40n_{\text{five}} \end{array}$$

We had many questions on bases

(b) Write the number which has been expanded below.

$(6 \times 10^4) + (3 \times 10^2) + (5 \times 10^1) + (9 \times 10^0)$. (*02 marks*)

PRE PLE SET 1 QUESTION 7

Write the number expanded below

$(4 \times 10^4) + (2 \times 10^2) + (7 \times 10^1) + (3 \times 10^0)$

PRE MOCK SET 1 QUESTION 9

What number has been expanded to form

$(7x10^2) + (2x1^0) + (6x10^{-1})$

PRE PLE SET 1 QUESTION 29(a)

What number has been expanded below.

$(7 \times 10^3) + (6 \times 10^2) + (4 \times 10^{-2})$

22. In a shop, a mathematical set costs sh 5,000, a dozen of exercise books costs sh 24,000 and a pen costs half the price of a book.

A teacher bought 8 mathematical sets, 3 exercise books and 5 pens from the shop. Calculate the total amount of money the teacher spent on all the items. (*06 marks*)

PRE PLE SET 1 QUESTION 28(a)

28. Tibakoberwa went shopping and bought the following items:

3 books at sh. 3,500 each 500 grams of turmeric at sh. 2,000 per kg

4 liters of cooking oil at sh. 1,500 per liter 3 loaves of bread at sh. 15,000

(a) Calculate her total expenditure.

AND MANY OTHER RELATED QUESTIONS FROM E-LEARN EXAMS

23. (a) Solve the inequality: $8 - 3t \geq 23$ (*03 marks*)

PRE MOCK SET 5 QUESTION 32

Solve and give the solution set for the inequality:

$8-\frac{3x}{4} \geq 5$

PRE PLE SET 6 QUESTION 25(b)

Solve: $8 \leq -2(y-1)$

PRE PLE SET 7 QUESTION 20

Solve and give the solution set for $-2p + 4 \leq 16$.

PRE MOCK SET 4 QUESTION 24(b)

Find the solution set $3y + 4 \leq 10$

(b) Write the solution set for the inequality: $-2 < x < 2$ (*01 mark*)

PRE PLE SET 3 QUESTION 22 (b)

Write down the solution set for $-3 < m < 4$

PRE PLE SET 4 QUESTION 24(b)

Find the solution set $3y + 4 \leq 10$

PRE PLE SET 4 QUESTION 27(b)

Solve and find the solution set for -6 ≤3y≤12.

24. On a school sports day, there were 800 guests. All the guests washed hands from a 20-litre water tank before they entered the school. On average, every guest used 400 millilitres of water. Calculate the total number of full 20-litre tanks of water the guests used. (*04 marks*)

PRE PLE SET NINE QUESTION 29

Mzee was a milk seller at buhura village in bushenyi ishaka. 48liters of milk were were sold in 3hours. Where by, one more litre of milk was sold more than the previous hour.

(a) How many more litres of milk did he sell on the last hour than the first hour? (04 marks)

25. In a class, some pupils like either music (M) or debating (D). 35 pupils like music and 15 pupils like debating only. 17 pupils like music but do not like debating. *b* pupils neither like music nor debating. The total number of pupils who do not like music is 28.

(a) Represent the given information on a Venn diagram. (*04 marks*)

(b) Calculate the total number of pupils in the class. (*02 marks*)

Many questions but we randomly selected a few below

WELCOME TO P.7 QUESTION 21.

In a class, 30 pupils like Maths (M), 23 pupils like English (E), 13 pupils like English
but not Maths while 2 pupils like neither of the two subjects,

(a) Complete the Venn diagram below.

MID TERM ONE QUESTION 21

In a class of 40 pupils, half of the class enjoys singing (S), 10 pupils enjoy dancing (D), 3 pupils enjoy both singing and dancing, while (n) pupils do not enjoy either activity.

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

26. The figure below is an accurate drawing of the positions of the three buildings in a trading centre. A scale of 1 cm to represent 50 metres was used.

Study and use the figure to answer the questions that follow.

(a) State the bearing of;

(i) the church from the mosque. (*01 mark*)

(ii) the church from the hospital. (*01 mark*)

(b) Find in metres, the shortest distance from the hospital to the mosque. (*02 marks*)

PRE PLE SET NINE QUESTION 32.

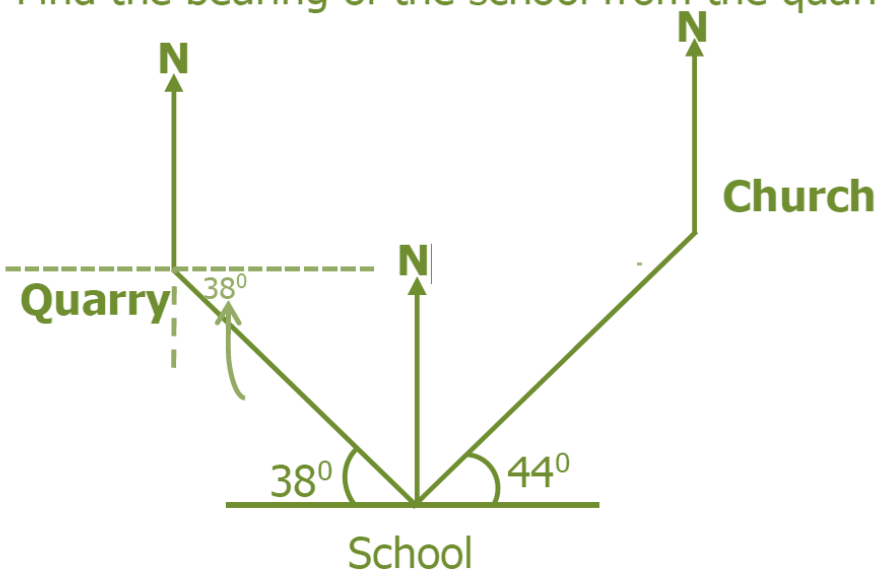
CEO's home is 120km in the Northeast of HOD's home. PRO's home is 180km on the bearing of 120_0 from HOD's home.
Using a scale of 1cm representing 20km, construct an accurate diagram showing the above information.

(i) What is the actual distance between CEO's home and PRO's home?

(ii) What is the bearing of HOD's home from PRO's home?

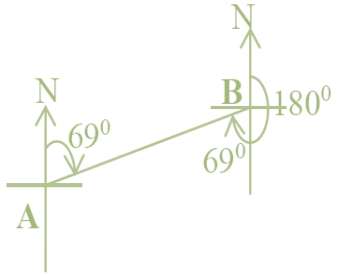
PRE PLE SET FIVE QUESTION 20

Find the bearing of the school from the quarry.



PRE PLE SET SIX QUESTION 19

The direction of town B from town A is **N69⁰E**. Find the bearing of town A from town B.



27. A businesswoman paid sh 800,000 for ten goats. She sold six of the goats at sh 110,000 each. Calculate the price at which she should sell each of the remaining goats in order to make a profit of 25%.

PRE PLE FINAL ITEM QUESTION 30.
Atwine bought a 50 kg bag of rice at sh 2,950 per kg and sold it in packs of 500 g.
If she spent sh 2,500 on transport, at what price must she sell each packet in order to get a profit of 10%?

28. A motorist travelled from town **M** to town **K** at a speed of 75km/h for 2 hours. The motorist stopped to have lunch at town **K** for one hour and then continued to town **L** for another 3 hours. The average speed of the motorist for the whole journey was 55km/h. Calculate the distance from town **K** to town **L**.

(*05 marks*)

WELCOME TO P.7 QUESTION 26.

A driver left town X at a speed of 60km/hr for 2 hours to town Y. he rested for an hour at town Y, he later continued to town M at a speed of 40km/hr for 2 hours.

Calculate his average speed for the whole journey.

PRE PLE SET EIGHT QUESTION 26(B)
A cyclist rode from town A to town C through town B. He started the journey
from town A at 8:00 a.m. riding at a speed of 20 km/h for 2 hours to town B.
He rested at town B for some time, and at 10:15 a.m., he started riding towards town C at a speed of 30 km/h and reached there at 1:15 p.m.
(b) Calculate the total distance the cyclist covered from town A to town C.

PRE PLE FINAL SET QUESTION 27.
A motorist drove from town R to town S at a speed of 80 km/h for 2 hours. He rested for 30 minutes and then continued to town T where he reached at 2:20 p.m. after having moved for $2\frac{1}{2}$ hours.

PRE MOCK SET THREE QUESTION 25.
Link bus traveled from town A and took $1\frac{1}{2}$ hours to reach town B. It spent 30 minutes at town B, then took half an hour to reach town C at a speed of 60 km/h.
(a) Find the distance from town B to town C.

29. The points A ($^{-}2$, $^{-}1$), B (0, 1) and C (4, 1) are three vertices of a parallelogram ABCD.

(a) Plot the points A, B and C on the grid below. (*03 marks*)

PRE PLE SET SEVEN QUESTION 32

Use the grid below to plot the following points: A (+3, -3) B(-3, -3) C (-3, +3)and D (+3, +3)

PRE PLE SET TWO QUESTION 30

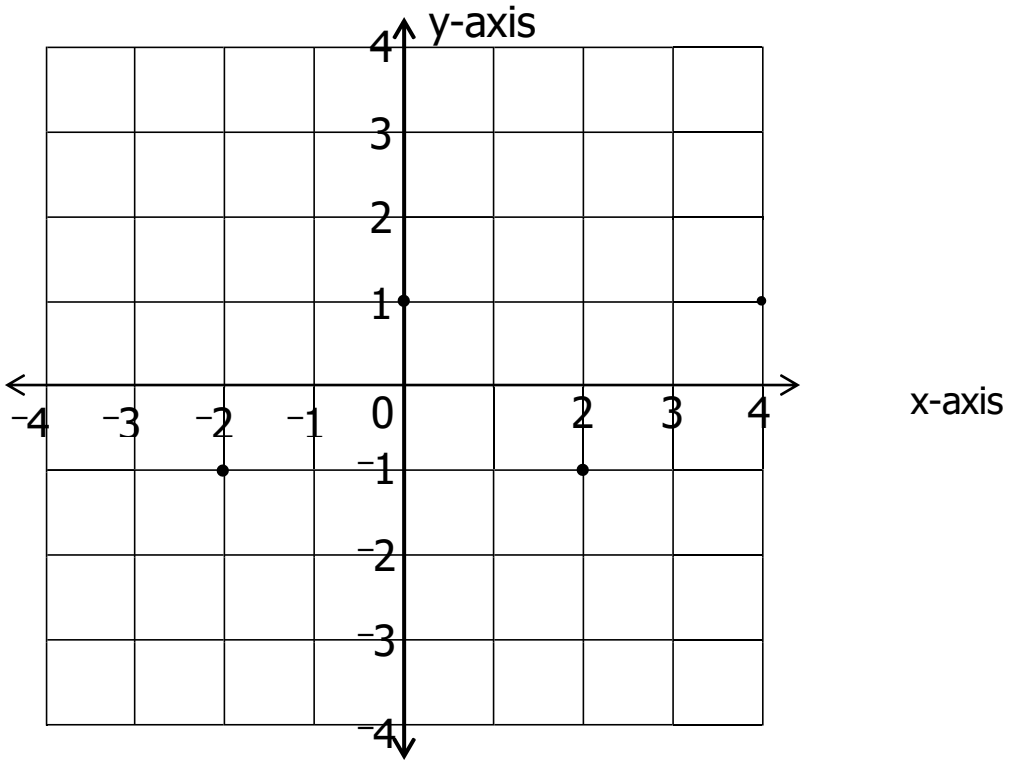
On the grid below, plot the following points: A(2,2), B(2,-1), C(-2,2) and D(-4,-1)

PRE MOCK SET THREE QUESTION 32

Plot points P (-1, +2), S (-3,-2), R (+3,-2), Q (3, 2) on the graph.

NATIONAL SPECIAL MOCK QUESTION 31.

In the grid below, use ordered pairs of coordinates given to plot a quadrilateral figure. X (4, +2), Y (4, -1), V (-3, -1), W (-1, +2).



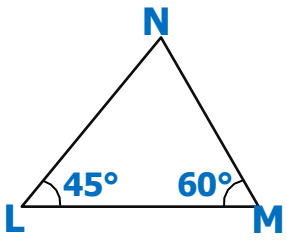
(a) Locate and state the coordinates of vertex D of the parallelogram. (*01 mark*)

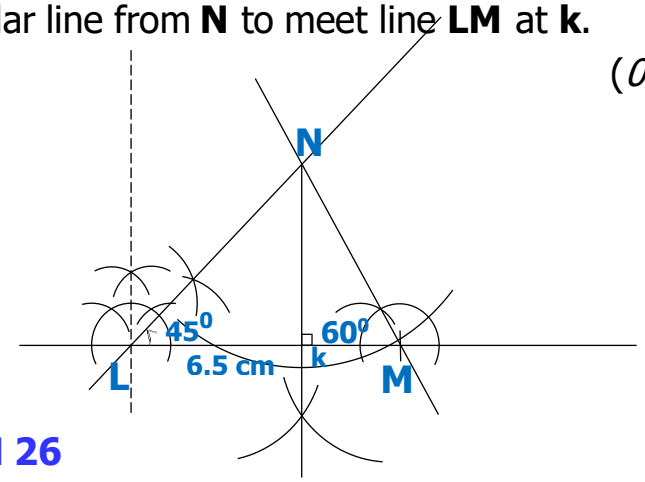
(b) Join the points A, B, C and D to form the parallelogram. (*01 mark*)

30. Using a ruler and a pair of compasses only;

(a) Construct triangle **LMN** in which line **LM = 6.5 cm**, angle **NLM= 45°** and angle **LMN = 60°.** (*04 marks*)

(b) Construct a perpendicular line from **N** to meet line **LM** at **k**. (*01 mark*)

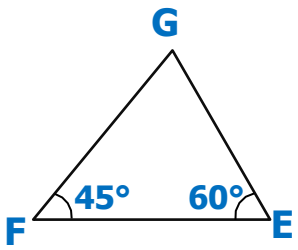


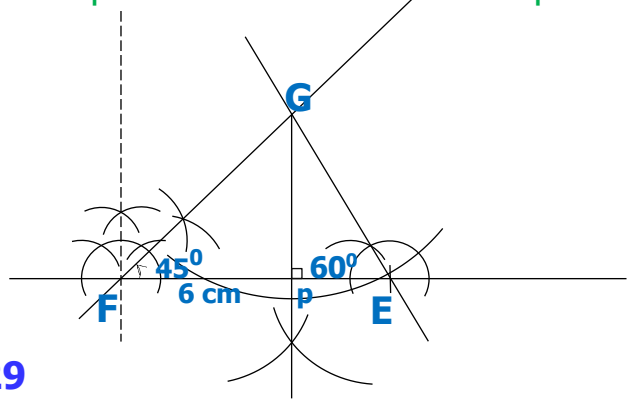


PRE MOCK SET 5 QUESTION 26

Using a ruler, a pencil and a pair of compasses only, construct a triangle **EFG** in which **EF = 6cm**, angle **EFG = 45⁰** and angle **FEG = 60⁰**.

(b) Drop a perpendicular line from point **G** to meet line **EF** at point **P**.



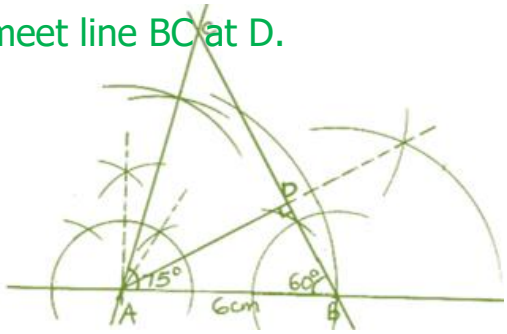


PRE PLE SET 8 QUESTION 29

Using a ruler and pair of compasses only, construct a triangle **ABC** in which line **AB = 6cm**, angle **CAB=75⁰** and angle **ABC=60⁰**

(b) Drop a perpendicular line from vertex A to meet line BC at D.

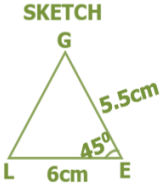


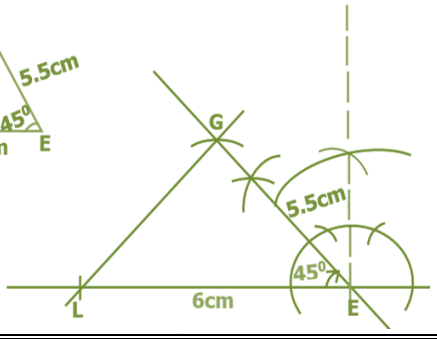


PRE PLE SET 4 QUESTION 28

With the aid of a ruler, a pencil and a pair of compasses only,

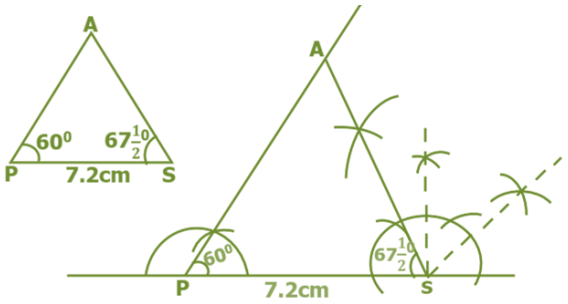
Construct triangle **LEG.** Where **LEG = 45⁰, LE=6cm** and **EG=5.5cm**





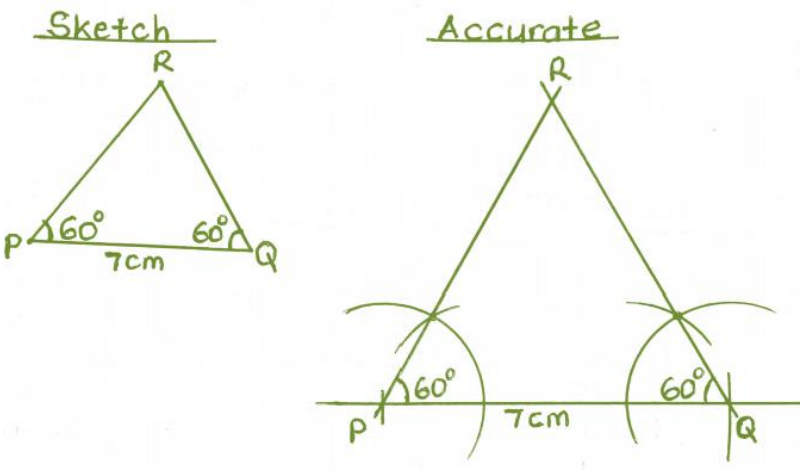
PRE PLE SET 5 QUESTION 24

Construct a triangle **PAS** given that angle **SPA =60⁰**, angle **PSA = $67\frac{1}{2}$ ⁰** and line **PS = 7.2cm**



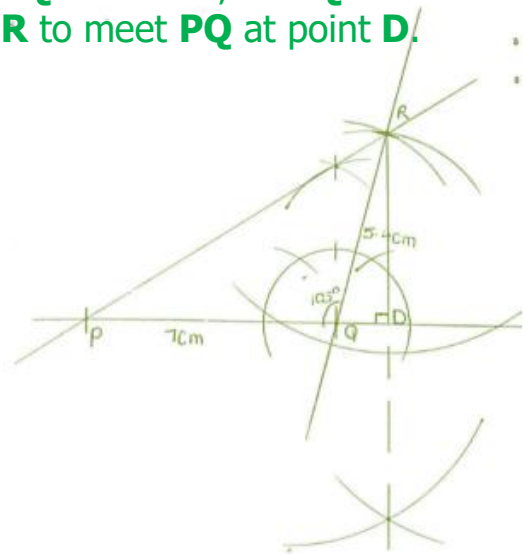
MID TERM ONE QUESTION 29

Using a ruler and a pair of compasses only, construct a triangle **PQR** in which line **PQ = 7 cm**, angle **RPQ** = angle **PQR** = **60⁰**. *(04 marks)*



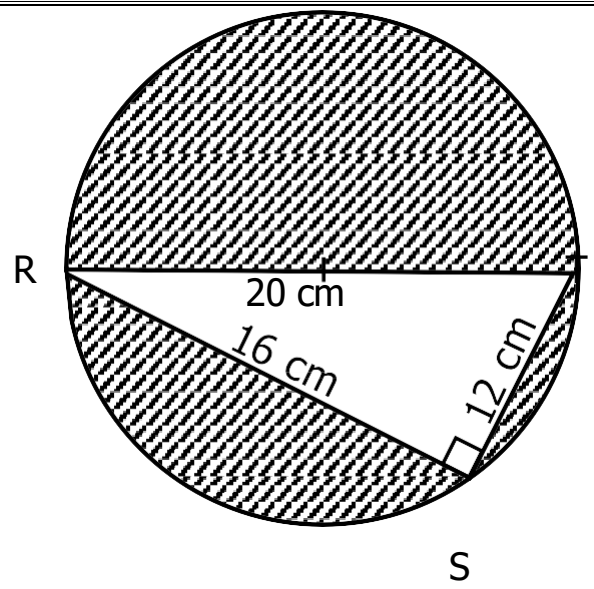
PRE MOCK SET 3 QUESTION 24

Using a pair of compasses, a ruler, and a sharp pencil only, construct a triangle **PQR** where **PQ = 7cm**, angle **PQR = 105⁰**, and **QR = 5.4 cm**.
Drop a perpendicular line from **R** to meet **PQ** at point **D**.



31. A right-angled triangle RST was cut out of a circular paper. The side of the triangle RS = 16 cm, ST = 12 cm and RT = 20 cm. The side RT of the triangle was cut through the centre of the circular paper.

Study and use the diagram to answer the question.



(a) Find the area of the paper that remained after cutting out the rectangle. (Use π = *3*.14) (*06 marks*)

PRE PLE SET SIX QUESTION 26.

In the diagram below, a circle is enclosed in a trapezium ABCD. Side AB = 14 cm, BC = AD = 5 cm and CD = 20 cm. The area of the trapezium which is not covered by the circle is shaded. Study the diagram and use it to answer the question that follows.

Work out the area of the trapezium which is not covered by the circle. (Take π = 3.14)

32. A man gave part of his land to his three children; Janat, Adam and Moses. Janat got $\frac{3}{8}$, Adam got $\frac{2}{5}$ and Moses got $\frac{1}{3}$ of the land.

Determine which one of the children got the largest share of the land. (*05 marks*)

PRE PLE SET SIX QUESTION 24

Bernard had 40 mangoes. He gave $\frac{3}{5}$ of the mangoes to his friends Paul and Madinah. Paul got $\frac{1}{3}$ of the oranges given to them; Madinah got $\frac{3}{4}$ of what Paul left. The remaining mangoes that were given to them were bad.

(a) How many mangoes did Madinah get?

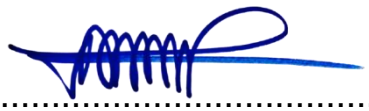
MESSAGE FROM THE CEO

The Mathematics analysis presented above offers clear, measurable and compelling evidence of E-Learn Examinations Board's strength in predictive assessment and syllabus intelligence. The wide coverage of PLE 2025 Mathematics questions that directly correspond to E-Learn examination items across the year confirms that our assessments were not just speculative, but strategically aligned with national examination expectations.

This level of alignment is not accidental. It is the result of expert examiner selection, strict moderation, continuous syllabus tracking, and careful analysis of UNEB examination trends. ***When learners practice the right questions, confidence replaces fear and performance improves predictably.***

For schools that consistently used E-Learn examinations, this analysis confirms a competitive advantage. learners were already engaged with familiar concepts, structures and demands. That is the true value of professional assessment.

As E-Learn Examinations Board, we remain committed to refining our Mathematics assessments to remain accurate, relevant, slightly challenging but future-focused, ensuring that **schools receive examinations that genuinely prepare learners for national and future success.**



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