PRIME SCHOLARS ASSESSMENTS

BEGINNING OF TERM TWO EXAMINATION

PRIMARY FOUR

2026

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Pupil's Name: ……

Pupil's Signature: ……

School Name: ……

District Name:……

Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** 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** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. 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 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A: 40 MARKS

Answer **all** questions in this Section
Questions **1** to **20** carry two marks each

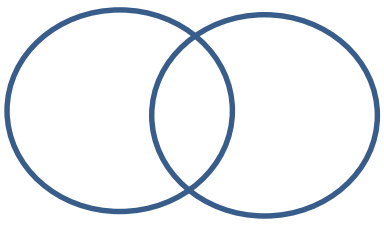
1. Add:
$$\begin{array}{r} 1\ \ 2 \\ +\ 6\ \ 7 \\ \hline \\ \hline \end{array}$$

2. Write 19 in words.

.....

3. In the Venn diagram below, shade **X** ∪ **Y**

Y ***X***



4. Write XXV in Hindu Arabic numerals.

5. Write 604 in expanded form using place values.

6. Workout: $\frac{5}{7} - \frac{3}{7}$

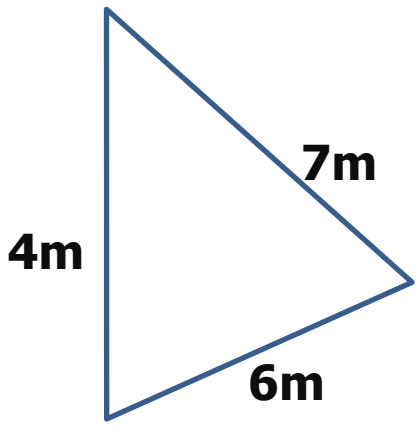
7. Tihan and Asaph equally shared 28 sweets. How many sweets did each get?

8. Draw a cuboid in the space provided below.

9. Find the next two numbers in the sequence.

2, 4, 6, 8, ____ , _____

10. The figure below represents a triangular flower garden.
Given that Audrine ran around the garden twice, What distance did she cover?



Turn Over

11. Identify the set symbol below.

∩ .....

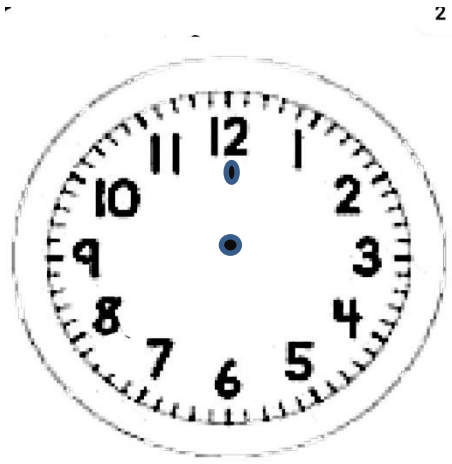
11. If one month has 30 days, how many days are in 4 months?

12. Given that set L = {odd numbers less than 12}. Find n(L).

13. Given that  represents 15 balls. How many balls are represented by the pictos below?

14. Find the value of 4 in 7,426.

15. Show a quarter past seven o'clock on the clock face below.



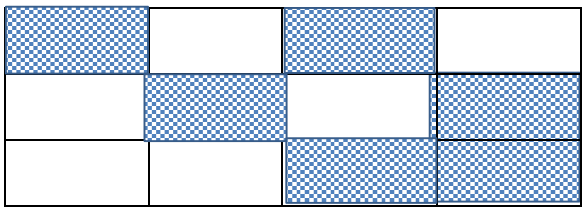
16. If one cup in a shop costs sh.2,500. How much will Elizabeth pay for 4 similar cups?

17. The table below shows the number of eggs collected from Mr. Opio's poultry farm during the Holy week.

Day	Mon.	Tues.	Wed.	Thur.	Fri.
No. of eggs	421	42	29	52	23

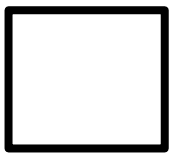
How many more eggs were collected on Monday than Friday?

18. Write the shaded fraction in the diagram below.



Turn Over

19. Solve: $\square - 5 = 7$



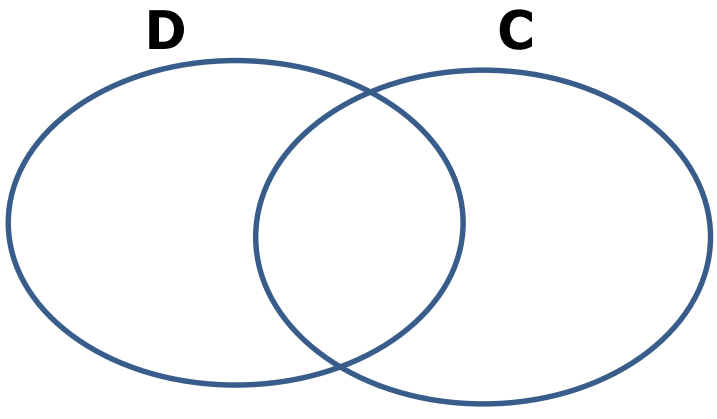
SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets.

20. Given that set c = {2, 3, 4, 6, 8 ,5} and set D = {0, 1, 3, 4, 5, 7, 9}.

(a) Represent sets C and D on a well-drawn Venn diagram below. (03 Marks)



(b) List down the members of C ∪ D (01 Mark)

(c) Find n(C ∩ D) (02 Marks)

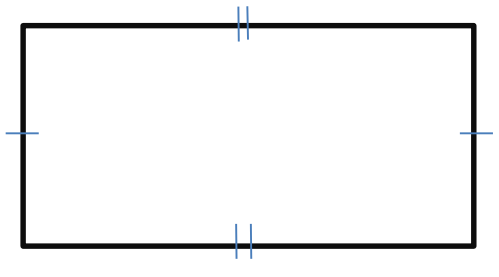
21. (a) Draw the following shapes.

Square	Cone	Cylinder

(03 Marks)

(b) Find the number of lines of folding symmetry in the figure below.

(02 Marks)



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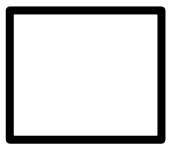


22. (a) Work out the following (02 Marks@)

(i) 2 4 3

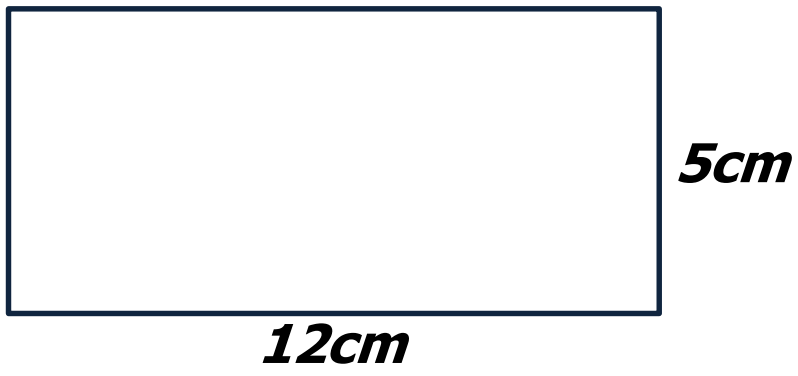
X 2

(ii) 6 0

-3 7

(b) Jane, Paul and Maria shared 39 lemons equally amongst themselves. How many lemons did each person get? (02Marks)

23. Study the figure below and answer the questions that follow.



(a) Name the above figure. (01 Mark)

.....

(b) Workout the area of the above figure. (02 Mark)

(c) Find its perimeter. (02 Marks)

24. Solve the following. (02 marks @)

(a) n + 4 = 9 (b) □ X 3 = 18

25. Mary weighs 49kg and Joseph weighs 34kg.

(a) _____ is lighter than_____ **(02 Marks)**

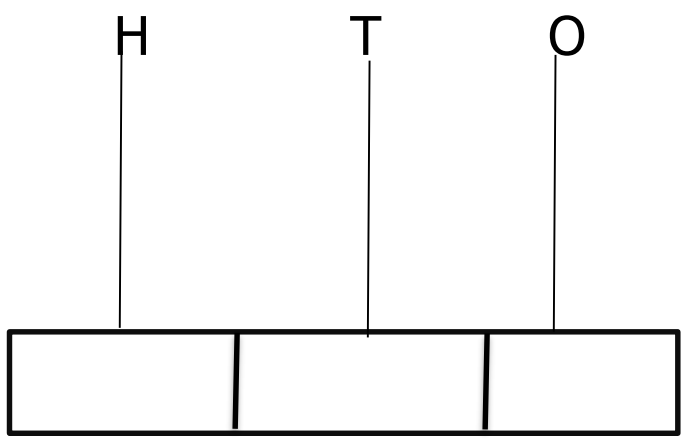
(b) Work out their total weight. (03 Marks)

27. Use the numeral ***647*** to answer the questions that follow.

(02 Marks @)

(b) Write the above numeral in words.

(c) Represent the above numeral on the abacus below.



(d) Expand the above numeral using values.

28 . Use >, < or = to complete the statements correctly.

(a) 3 + 4 _____ 3 X 4. (02 Marks)

(b) $\frac{1}{2}$ _____ $\frac{1}{3}$ (02 Marks)

(c) 1metre. _____ 100cm (02 Marks)

29. Study the shopping list below and use it to answer the questions that follow.

ITEM	**PRICE**
A dress	Sh.5,000
A sweater	Sh.2,000
A watch	Sh. 3,500

(b) How much is the most expensive item?
(01 Mark)

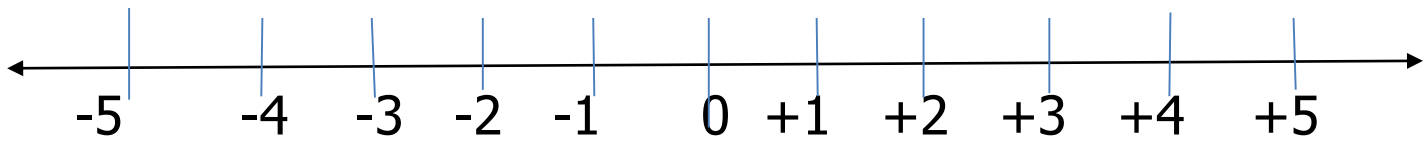
(c) State the cheapest item from the list above. (01 mark)

(d) How much will Bruno pay for a watch and 2 sweaters? (03 marks)

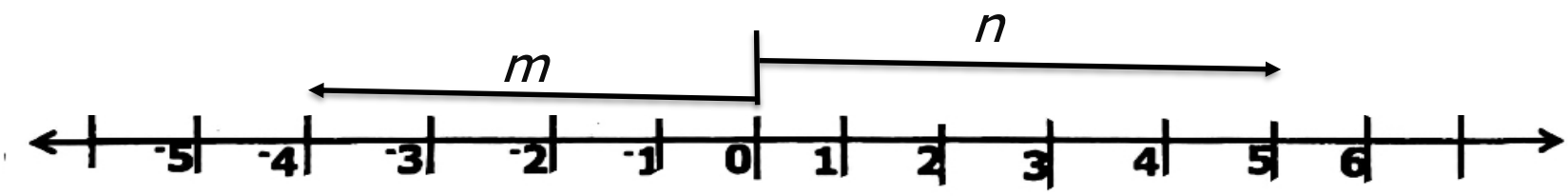
30. (a) Work out the product of 6 and 3. 02 Marks)

(b) Alexia bought 34 litres of milk and Jordan bought 27 litres of milk. How many litres of milk did they buy altogether? 02 Marks)

31. (a) Show -5 on the number line below (02 Marks)



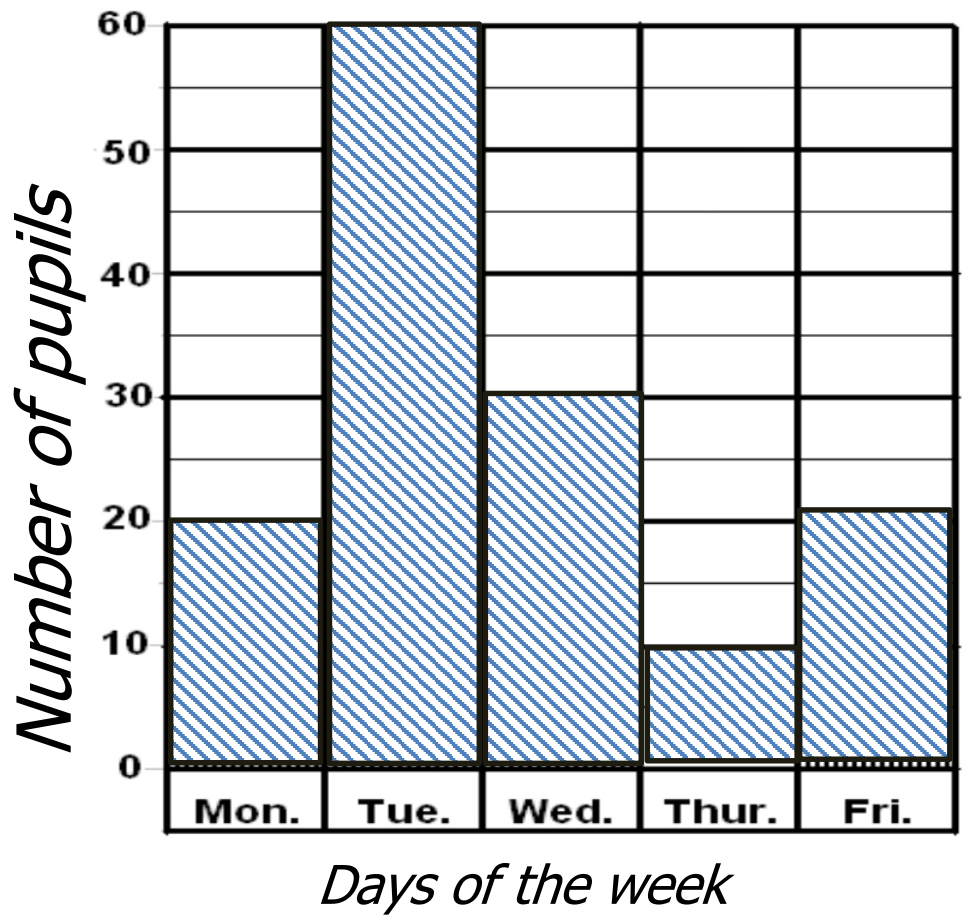
(b) Identify the integers represented by;



m ..... *n* .....

(02 Marks)

32. The graph below Shows the number of pupils who attended school in a certain week.



a) How many more pupils attended on Wednesday than Friday?

(b) How many pupils attended school on Tuesday?

.....

(c) Which days had the same number of Pupils' attendance?

.....

(d) On which day was the least pupils' attendance registered?

.....

END

Date: .....

Name of the School: .....

Subject: .....

Teacher's Name: .....

Number of Children:

Boys: ..... Girls: .....

Signature: .....

PRIME SCHOLARS

★ ASSESSMENTS ★

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P.4

SECTION A: 40 MARKS

Answer **all** questions in this Section
Questions **1** to **20** carry two marks each

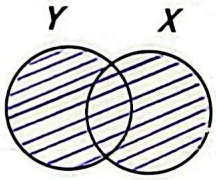
1. Add:
$$\begin{array}{r} 1\ \ 2 \\ +6\ \ 7 \\ \hline 7\ \ 9 \end{array}$$

$7+2=9$
$6+1=7$

2. Write 19 in words.

Nineteen

3. In the Venn diagram below, shade **X ∪ Y**



4. Write XXV in Hindu Arabic numerals.

XX + V
20 + 5
25

5. Write 604 in expanded form using place values.

H	T	O
6	0	4

$(6\times100)+(0\times10)+(4\times1)$

6. Workout: $\frac{5}{7} - \frac{3}{7}$

$\frac{5}{7} - \frac{3}{7} = \frac{5-3}{7} = \frac{2}{7}$

7. Tihan and Asaph equally shared 28 sweets. How many sweets did each get?

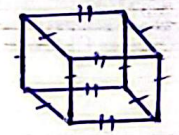
$2\overline{)28}$ = 14

$1 \times 2 = 2$, 0, 8

$4 \times 2 = 8$

∴ Each got 14 sweets

8. Draw a cuboid in the space provided below.

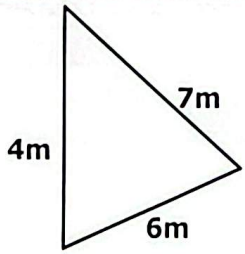


9. Find the next two numbers in the sequence.

2, 4, 6, 8, 10, 12

+2 +2 +2 +2 +2

10. The figure below represents a triangular flower garden.
Given that Audrine ran around the garden twice, What distance did she cover?



Distance = 5 + 5 + 5

= 6m + 4m + 7m

10m + 7m

17m

(2 × 17)m

34m

11. Identify the set symbol below.

$\cap$ ..... Intersection set. .....

11. If one month has 30 days, how many days are in 4 months?

1 month — 30 days

4 months — (4 × 30) days

= 120 days.

12. Given that set L = {odd numbers less than 12}. Find n(L).

$L = \{1, 3, 5, 7, 9, 11\}$

$n(L) = 6$

13. Given that  represents 15 balls. How many balls are represented by the pictos below?

1 picture represents 15 balls

3 pictures represent (3 × 15) balls

45 balls

(15 + 15 + 15) balls

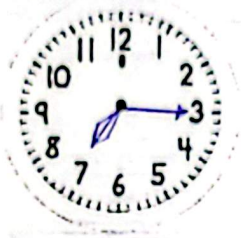
45 balls.

14. Find the value of 4 in 7,426.

Th	H	T	O
7	4	2	6

4 x 100
= 400

15. Show a quarter past seven o'clock on the clock face below.



16. If one cup in a shop costs sh.2,500. How much will Elizabeth pay for 4 similar cups?

1 cup costs sh 2500
4 cups cost (4 x 2500) shillings
= 10,000 shillings

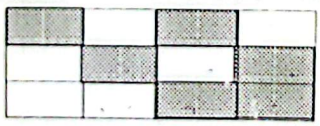
17. The table below shows the number of eggs collected from Mr. Opio's poultry farm during the Holy week.

Day	Mon.	Tues.	Wed.	Thur.	Fri.
No. of eggs	421	42	29	52	23

How many more eggs were collected on Monday than Friday?

421 eggs
− 23 eggs
398 eggs

18. Write the shaded fraction in the diagram below.

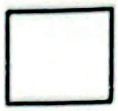


$\frac{6}{12}$

19. Solve: $\square - 5 = 7$

$\square - 515 = 715$

$\square = 12$



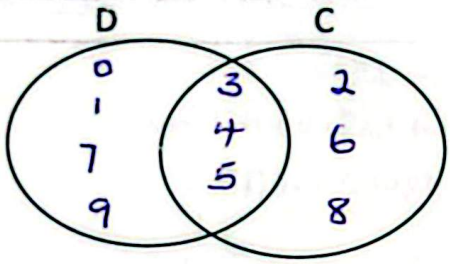
SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets.

20. Given that set c = {2, 3, 4, 6, 8 ,5} and set D = {0, 1, 3, 4, 5, 7, 9}.

(a) Represent sets C and D on a well-drawn Venn diagram below. (03 Marks)



(b) List down the members of C ∪ D (01 Mark)

$C \cup D = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$

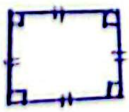
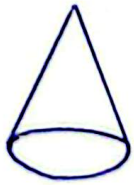
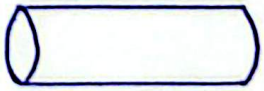
(c) Find n(C ∩ D) (02 Marks)

$C \cap D = \{3, 4, 5\}$

$n(C \cap D) = 3$

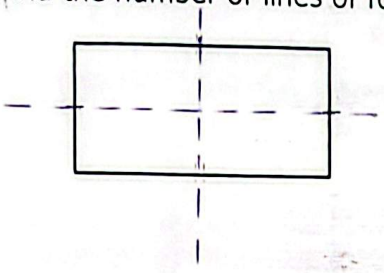
6

21. (a) Draw the following shapes.

		
Square	Cone	Cylinder

(03 Marks)

(b) Find the number of lines of folding symmetry in the figure below.
(02 Marks)



....Two lines of folding symmetry....

22. (a) Work out the following
(02 Marks@)

(i) $243 \times 2 = 486$

$2 \times 3 = 6$
$2 \times 4 = 8$
$2 \times 2 = 4$

(ii) $60 - 37 = 23$

$10 - 7 = 3$
$5 - 3 = 2$

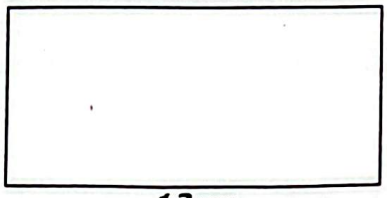
(b) Jane, Paul and Maria shared 39 lemons equally amongst themselves. How many lemons did each person get?
(02Marks)

$3\overline{)39}$ → 13

∴ Each person got 13 lemons.

$1 \times 3 = 3$
$0\ 9$
$3 \times 3 = 9$
$0\ 0$

23. Study the figure below and answer the questions that follow.



(a) Name the above figure. (01 Mark)

Rectangle.

(b) Workout the area of the above figure. (02 Mark)

Area = L x W

Area = 12cm x 5cm

= 60cm²

(c) Find its perimeter. (02 Marks)

Perimeter = 2(L+W)

= 2(12cm+5cm)

= 2 x 17cm

= 34cm

24. Solve the following. (02 marks @)

(a) n + 4 = 9

n + 4 - 4 = 9 - 4

n + 0 = 5

n = 5

(b) □ X 3 = 18

□ x 3 ÷ 3 = 18 ÷ 3

□ = 6

$\frac{□ \times 3}{3} = \frac{18}{3}$

□ = 6

25. Mary weighs 49kg and Joseph weighs 34kg.

(a) Joseph is lighter than Mary **(02 Marks)**

(b) Work out their total weight. (03 Marks)

$$\begin{array}{r} 49\ Kg \\ +\ 34\ Kg \\ \hline 83\ Kg \end{array}$$

8

27. Use the numeral ***647*** to answer the questions that follow.

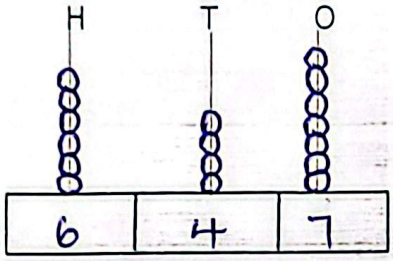
(02 Marks @)

(b) Write the above numeral in words.

H	T	O
6	4	7

Six hundred forty seven.

(c) Represent the above numeral on the abacus below.



(d) Expand the above numeral using values.

H	T	O
6	4	7

(6x100)+(4x10)+(7x1)

600+40+7

28 . Use >, < or = to complete the statements correctly.

(a) 3 + 4 ____ 3 X 4. (02 Marks)

(b) $\frac{1}{2}$ ____ $\frac{1}{3}$ (02 Marks)

(c) 1metre. ____ 100cm (02 Marks)

29. Study the shopping list below and use it to answer the questions that follow.

ITEM	PRICE
A dress	Sh.5,000
A sweater	Sh.2,000
A watch	Sh. 3,500

(b) How much is the most expensive item?
(01 Mark)

Sh 5,000

(c) State the cheapest item from the list above. (01 mark)

A sweater.

(d) How much will Bruno pay for a watch and 2 sweaters? (03 marks)

Sh 3500
+ Sh 4000
Sh 7500

2x2000
4000

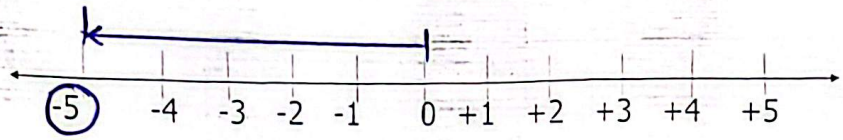
30. (a) Work out the product of 6 and 3.
02 Marks)

3 x 6 = 18

(b) Alexia bought 34 litres of milk and Jordan bought 27 litres of milk. How many litres of milk did they buy altogether?
02 Marks)

34 litres
+ 27 litres
61 litres of milk

31. (a) Show -5 on the number line below (02 Marks)

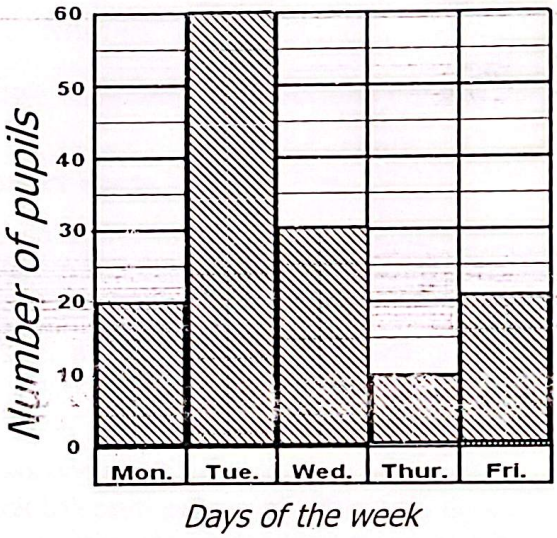


(b) Identify the integers represented by;

m ..... -4 ..... n ..... +5 .....

(02 Marks)

32. The graph below Shows the number of pupils who attended school in a certain week.



a) How many more pupils attended on Wednesday than Friday?

3 0 pupils
− 2 0 pupils
1 0 pupils

∴ 10 more pupils attended on Wednesday than Friday.

(b) How many pupils attended school on Tuesday?

..... 60 pupils .....

(c) Which days had the same number of Pupils' attendance?

..... Monday and Friday. .....

(d) On which day was the least pupils' attendance registered?

..... On Thursday .....

END

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PRIME SCHOLARS ASSESSMENTS

BEGINNING OF TERM TW0 EXAMINATION

PRIMARY SEVEN

2026

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Random No.						Personal No.		

Pupil's name: ……

Pupil's Signature: ……

District Name:……

Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** 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 **12 printed pages** altogether
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. 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 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn Over

SECTION A (40 Marks)

Answer all questions in this section.
Questions 1-20 carry 2maarks each.

1. Draw tallies to represent 17 boys.

2. Simplify: x +y +2x + 3y

3. Write 40,098 in words.

4. In the space below, draw a net of a cube.

5. Given that set W= {s, o, n} and that set V={n, o, r, t, h}. Find n(V∪W).

6. By using a ruler, a pencil and a pair of compasses only, construct an angle of 120^0

7. Without dividing, show that 2016 is exactly divisible by 3.

8. Rwamurunga primary school has 3,986 pupils. When buying text books, this number was rounded off to the nearest hundreds. Find the number of extra text books that were bought.

9. Express 10m/s to km/h.

1O. After selling a goat at sh.180,000, a farmer realized a loss of sh.25,000. Find the cost price of the goat.

11. Trifioli has a circular vegetable garden of diameter 14 metres. She is planning to fence it using poles placed at intervals of 4metres apart. Calculate the total number of poles that Trifioli will need to fence the whole garden. (Take $\pi = \frac{22}{7}$)

12. Given that today is Wednesday. What day of the week will it be after 23 days from today?

Turn Over

13. Find the GCT of 12 and 18.

14. Nisha tossed a dice once. Find the probability that an even number appeared on top.

15. Express 33_{ten} to base five.

16. If k and 135^0 are supplementary angles, find the value of k.

17. Find the sum of the value of 8 and the place value of 4 in the number 8,640.

18. Workout; $^{-}8 - ^{-}7$

19. Find the next number in the sequence below.

    5, 8, 6, 9, 7, ……..

20. Arrange; 4, -4, 0, 6 and 8 in descending order.

SECTION B (60 Marks)
Answer all questions in this section.

21 Given that in a class of 45 pupils, 21 learners like mathematics(M), 24 learners like English(E), some learners like both subjects while 5 learners like none of the two.

(a) Draw a venn diagram to represent the above information.

(03 Mark)

(b) Find the number of learners who like only English.

(03 Marks)

22. (a) Workout; $\frac{0.24 \times 0.8}{0{\cdot}9 + 0.3}$ (03 Marks)

b) Express 0.272727--- as a simplified vulgar fraction. *(02 Marks)*

Turn Over

23. With the help of a ruler, a pencil and a pair of compasses only,

(a) Construct a triangle WXY where line XY= 7cm, angle XYW=45^0 and angle WXY =45^0. ***(04 Marks)***

(b) Measure the length of side WX.

WX = …… ***(01 Mark)***

24. The table below shows Mr. Kato's shopping list. Use it to answer the questions that follow.

ITEM	UNIT COST	AMOUNT
$2\frac{1}{4}$ kg of rice	Sh.3,600 per kg	Sh.……
750gm of sugar	Sh……. per kg	Sh. 3,150
……ml of cooking oil	Sh. 8,000 per litre	Sh,2,000
TOTAL EXPENDITURE		Sh. ……

a) Complete the above table correctly.

(04 Marks)

b) If Mr. Kato came back at his home with sh.3,000. How much money did he go with for shopping?

(01 Mark)

25. (a) Given that $102_{m} = 23_{four}$. Find the value of m.

(03 Marks)

b) Find the value of 4 in 3243_{five}. *(02 Marks)*

26. On Monday, a motorist left his home at 8:40a.m to the market at a speed of 40km/h for 3 hours. He then rested for 30 minutes in the market before driving back home at a speed of 20km/h.

(a) How far is the market from his home?

(02 Marks)

(b) At what time did he reach his home from the market?

(03 Marks)

27. a) Solve for k; $\frac{2k}{3} - 2 = -4$ *(02 Marks)*

b) Given that a= 2b and c= -2, find the value of ab + 2c if $b = -\frac{1}{2}$. *(03 Marks)*

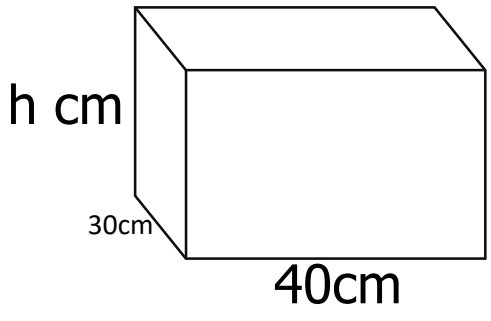
Turn Over

28 Kato, Wasswa and Tom shared a certain amount of money in the ratio of 2:3:7 respectively. If Tom got sh.36,000 more than Wasswa.

a) How much monry did each of them get? *(03 Marks)*

b) How much less money did kato get than Tom? *(02 Marks)*

29 Given below is a rectangular tank whose capacity is 24 litres. Use it to answer the questions that follow.



a) Work out the height of the tank. *(03 Marks)*

b) Calculate the total surface area of the tank above. *(02 Marks)*

30 The sum of 3 consecutive even numbers is 24. Workout the median of the numbers.

(04 Marks)

31. The angles in a triangle are 2p, $2p + 10^0$ and $p + 20^0$.

a) Find the value of p in degrees.

(03 Marks)

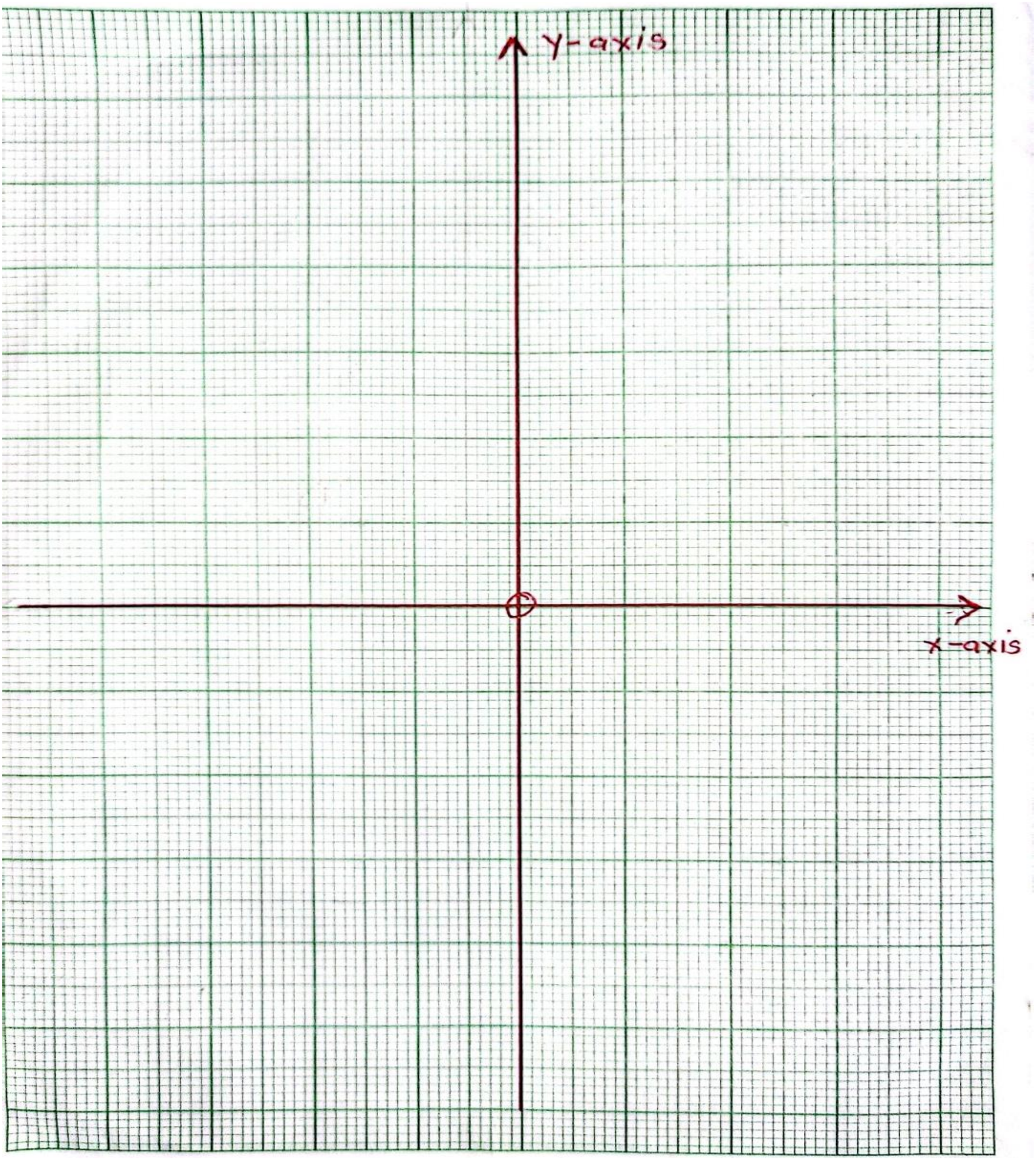
b) Work out the supplement of the angle $2y + 10^0$.

(02 Marks)

Turn Over

32. Oprah, Britah, Nabaasa and Whitney were standing at positions ($^{-}4$, $^{+}4$), ($^{+}6$, $^{+}4$), ($^{+}2$, $^{-}4$) and ($^{-}8$, $^{-}4$) respectively in a Cartesian plane.

Plot the positions of the above given girls on the grid below. ***(02 Marks)***



b) If their class teacher connected their positions with a tight string, state the name of the geometric figure that would be formed. ***(02 Marks)***

……

END

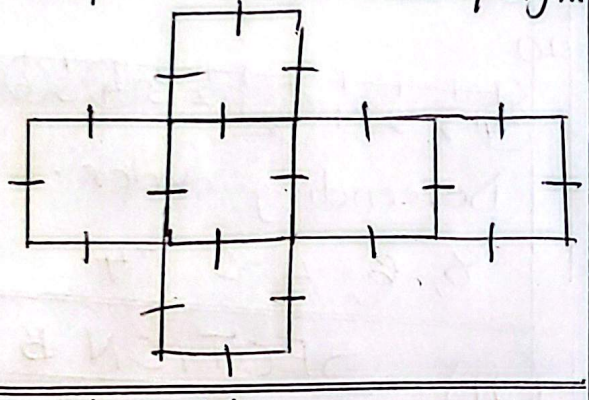
P.7 B.O.T 2 MARKING GUIDE 2026:

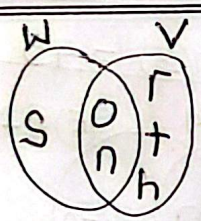
SECTION A

1. 𝍸 𝍸 𝍸 ||

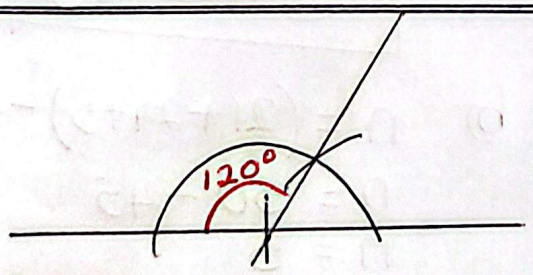
2. $x - y - 2x - 3y$
$x - 2x - y - 3y$
$-x - 4y$

3. Forty thousand ninety-eight.

4. 

5. 

$n(V \cup W) = 6$

6. 

7. 2016
$2+0+1+6=9$
Since 9 is divisible by 3,
2016 is also divisible by 3

8. $3^{T}\ 9^{H}\ 8^{T}\ 6^{O}$

$$\begin{array}{r} 3900 \\ +\ 100 \\ \hline 4000 \end{array}$$

Extra textbooks.

$$\begin{array}{r} 4,000 \\ -\ 3,986 \\ \hline 0014 \end{array}$$

14 extra textbooks

9. $10\text{m/s} \rightarrow \frac{10\text{ km}}{1000} \div \frac{1\text{hr}}{60\times60}$
$= \frac{1\text{ km}}{100} \times \frac{3600}{1\text{hr}}$
$= 36\text{km/h}$

10. Cost price = selling price + loss.
= sh. 180,000
+ sh. 25,000
sh. 205,000

11. $C = \pi d$
$= \frac{22}{7} \times 14^{2}\text{m}$
$= 44\text{m}$
No poles $= \frac{C}{I}$
$= \frac{44\text{m}}{4\text{m}}$
$= 11$ poles.

12.

M	T	W	T	F	S	S
1	2	3	4	5	6	0

$3 + 23 = \_\_$ (finite 7)
$26 \div 7 = 3$ rem. 5
~~26~~

$2+23 = \underline{5}$ (Finite 7).

Friday.

13 $F_{12} = \{1, 2, 3, 4, 6, 12\}$

$F_{18} = \{1, 2, 3, 6, 9, 18\}$

GCF = 6

14 1, 2, 3, 4, 5, 6

Probability = $\frac{DC}{T.C}$

$= \frac{3}{6}$

15 33_{ten} to base five.

B	No	Rem.
5	33	3
5	6	1
5	1	1
	0	

$= 113_{five}$.

16 $K + 135° = 180°$

$K + 135° - 135° = 180° - 135°$

$K = 45°$

17 $8^{TH}, 6^{H}\ 4^{T}\ 0^{O}$

$(8 \times 1000) + 10$

$8000 + 10$

$= 8010$

18 $-8 - (-7)$

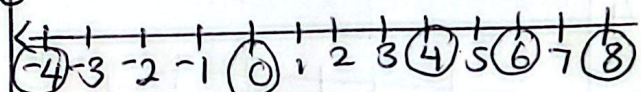
$-8 + 7$

$= -1$

$-x- = +$

19 5, 8, 6, 9, 7, 10

+3 −2 +3 −2 +3

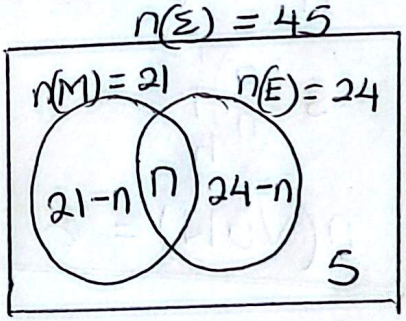
20 

Descending order.

8, 6, 4, 0, −4

SECTION B

(21) (a)



(b) $n = (21 + 24 + 5) - 45$

$n = 50 - 45$

$n = 5$

English only;

$24 - 5$

$= 19$ learners.

(22) (a)

$(0.24 \times 0.8) \div (0.9 + 0.3)$

$\left(\frac{24}{100} \times \frac{8}{10}\right) \div \left(\frac{9}{10} + \frac{3}{10}\right)$

$\frac{24 \times 8}{100} \times \frac{10}{12}$

$= \frac{16}{100}$

$= 0.16$

b) $0.2727\ldots$

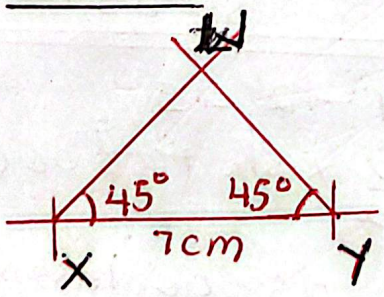
$= \frac{27 - 0}{100 - 1}$

$= \frac{27}{99}$ (3, 11)

$= \frac{3}{11}$

23.

Sketch.



(b) WX=

24. Rice: $2\frac{1}{4} \times$ sh 3600

= sh. 8100

Sugar = sh 3150 ÷ $\frac{750}{1000}$

= sh. 3150 ÷ 0.75

= sh. 4,200

Cooking oil. sh. 2000

sh. 8000

$\frac{1}{4}$ litres

$\frac{1}{4} \times 1000$ml

250mL.

Total.

sh. 4,200 + sh. 3150 + sh. 200

= sh. 9,350

b) sh. 9,350

+ sh 3,000

sh. 12350

25. (a) $102_m = 23_{four}$

$(1 \times m^2) + (2 \times 1) = (2 \times 4) + 3$

$m^2 + 2 = 8 + 3$

$m^2 + 2 - 2 = 11 - 2$

$\sqrt{m^2} = \sqrt{9}$

$m = 3$

m is base three.

b) 3243_{fives}

$(4 \times 5) = 20$

26 (a) Distance = S × T

= 40km/h × 3

= 120km

(b)

Back.

Time = $\frac{D}{S}$

= $\frac{120km}{20km/h}$

= 6 hours.

Total time.

= $\left(3 + \frac{30}{60} + 6\right)$ hours.

= $9\frac{1}{2}$ hours.

8 : 40 a.m.
+ 9 : 30
18 10 hours.

18 10
− 12 00
6 : 10 p.m

27 (a) $3 \times \frac{2k}{3} - 2 \times 3 = -4 \times 3$

$2k - 6 = -12$

$2k - 6 + 6 = -12 + 6$

$\frac{2k}{2} = \frac{-6}{2}$

$k = -3$

(b) $a = 2b$

$a = 2 \times \frac{1}{2}$.

$a = 1$

$ab + 2c$

$-1 \times \frac{-1}{2} + (2 \times -2)$

$= \frac{1}{2} + -4$

$= \frac{1}{2} - 4$

$= -3\frac{1}{2}$

28 (a)

Kato	Wasswa	Tom	Total
2	3	7	12

7 − 3 = 4

Sh. 36,000 ÷ $\frac{4}{12}$

Sh. 36,000 × $\frac{3}{4}$,

Sh. 108,000

Kato: sh. $\frac{2}{12}$, × 108,000

= sh. 18,000

Wasswa = sh. $\frac{3}{12}$, × 108,000

= sh. 27,000

Tom → $\frac{7}{12}$, × sh. 108,000

sh. 63,000

(b) 7 − 2 = 5

$\frac{5}{12}$, × sh. 108,000

Sh. 45,000 less money.

29 (a)

$V = 24 \times 1000\ cm^3$

$V = 24{,}000 cm^3$

$L \times w \times h = 40cm \times 30cm \times h.$

$\frac{24{,}000cm \times cm \times cm}{40cm \times 30cm} = \frac{40cm \times 30cm \times h}{40cm \times 30cm}$

$\frac{24{,}000}{200}\ cm = h.$

$20cm = h$

$h = 20cm.$

(b)

$TSA = 2(L \times w) + 2(L \times h) + 2(w \times h)$

$= 2(40cm \times 30cm) + 2(40cm \times 20cm) + 2(30cm \times 20cm)$

$= (2 \times 1200cm^2) + (2 \times 800cm^2) + (2 \times 600cm^2)$

$= 2400cm^2 + 1600cm^2 + 1200cm^2$

$= 5200cm^2$

30 Let first number = n

1st	2nd	3rd	Total
n	$n+2$	$n+4$	24

$n + n + 2 + n + 4 = 24$

$3n + 6 - 6 = 24 - 6$

$\frac{3n}{3} = \frac{18}{3}$

$n = 6$

6

$6 + 2 = 8$

$6 + 4 = 10$

6, 8, 10

Median = 8

31

(a)

$2p + 2p + 10^\circ + p + 20^\circ = 180^\circ$

$5p + 30^\circ = 180^\circ$

$5p + 30^\circ - 30^\circ = 180^\circ - 30^\circ$

$\frac{5p}{5} = \frac{150^\circ}{5}$

$p = 30^\circ$

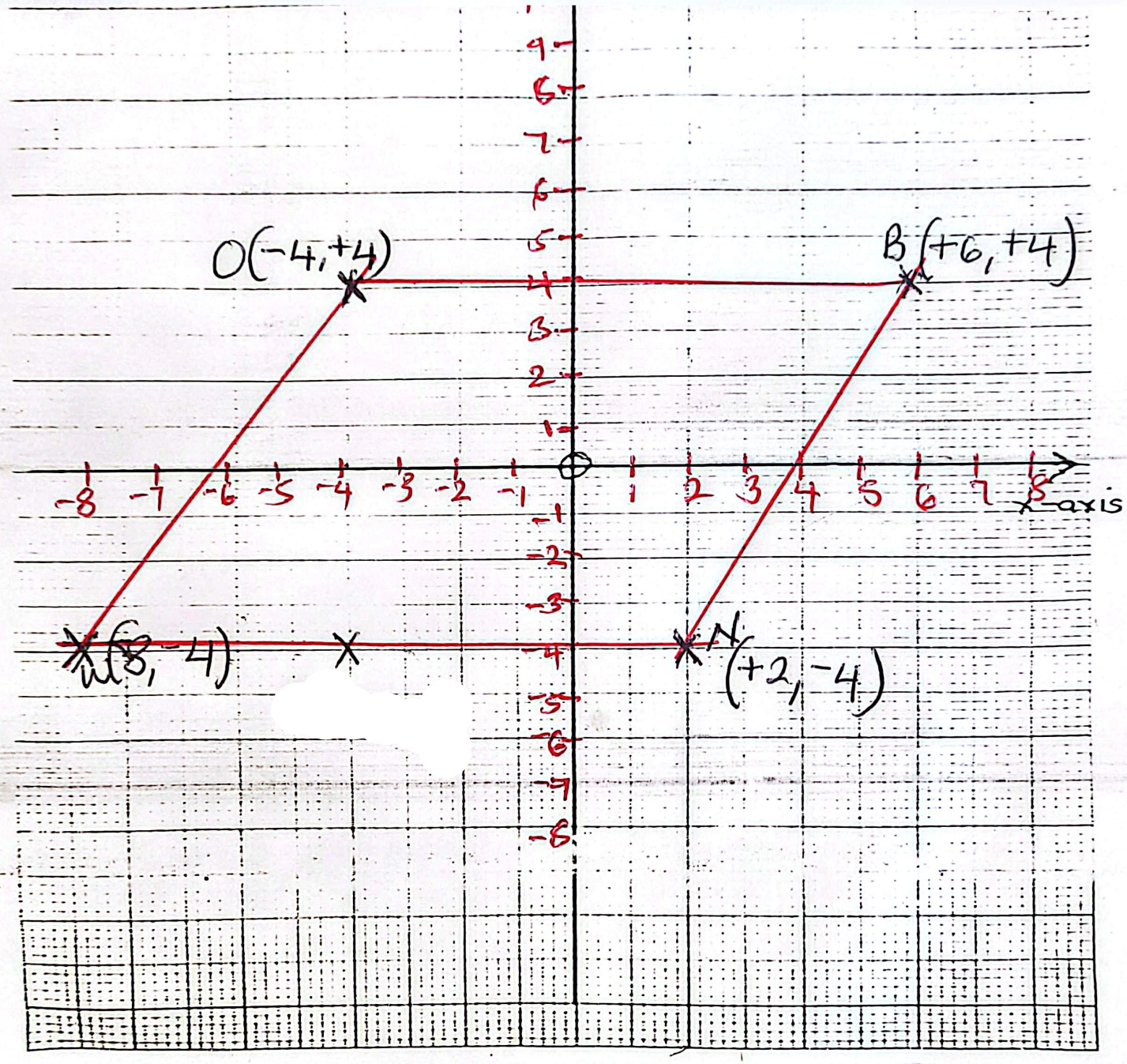
(b)

$180^\circ - (2y + 10^\circ)$

$180^\circ - 2y - 10^\circ$

$180^\circ - 10^\circ - 2y$

$170^\circ - 2y$



b) If their class teacher connected their positions with a tight string, state the name of the geometric figure that would be formed. (02 Marks)

Parallelogram.