

FORT PORTAL CITY COUNCIL EDUCATION DEPARTMENT
PRIMARY LEAVING MOCK EXAMINATION, 2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID No:

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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 **16 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 examination room.
6. Unnecessary **changes** in your work and hand writing 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.

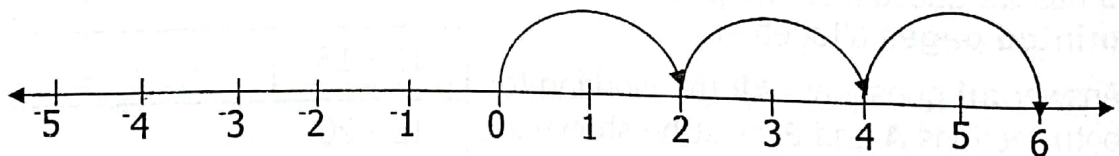
Questions 1 to 20 carry two marks each.

1. Add:

$$\begin{array}{r} 2\ 3_{\text{five}} \\ + 2\ 1_{\text{five}} \\ \hline \end{array}$$

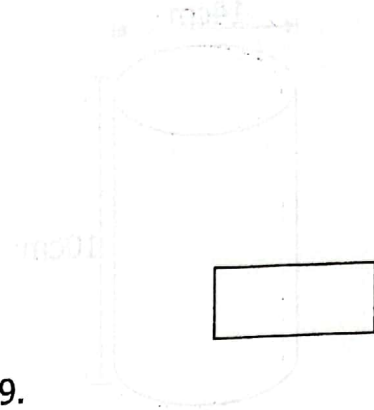
2. Simplify: $6y + 2y - 4y$.

3. Write down the mathematical statement shown on the number line below.



4. Write in words; 10629.

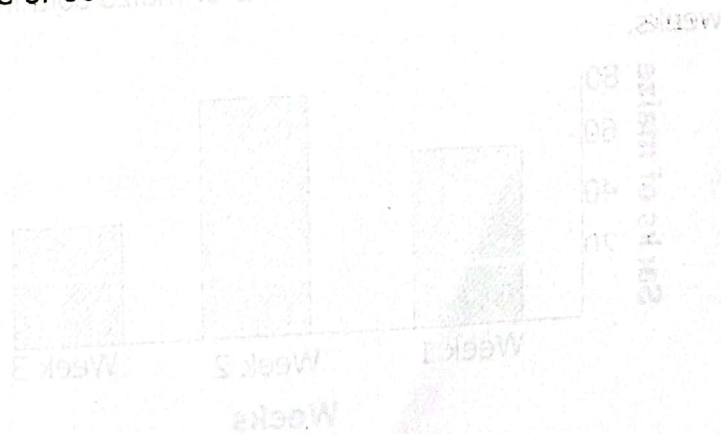
5. Given that set $D = \{ \text{The first four composite numbers} \}$
List down all members of set D.



6. Without dividing, show that 261 is exactly divisible by 9.

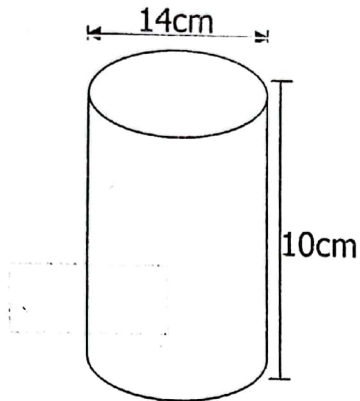
7. A car covered a distance of 72km in 1 hour. What was the speed of the car in metres per second?

8. Express 60 as a percentage of 80.



Turn over

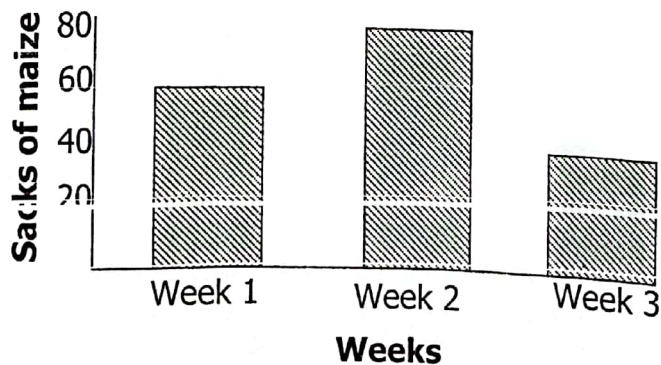
9. Calculate the volume of the cylindrical tin shown below (Take $\pi = \frac{22}{7}$)



10. Solve for m in; $m - 6 > 4$

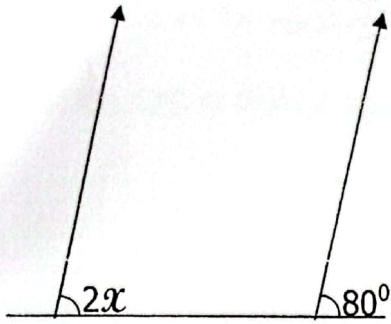
11. The cost price of a dozen of plates is Shs. 72,000. Namirimo sold each plate at Shs. 8000. How much profit did she get after selling all the plates?

12. The bar graph below shows sacks of maize sold in Nakasero market in three weeks.



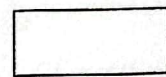
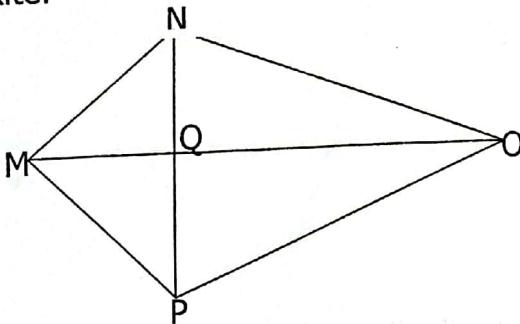
How many more sacks of maize were sold in week 1 than in week 3?

13. Solve for the value of x in degrees in the figure below.



14. Find the least number which, when divided by 3, 2 remains, when divided by 4, 3 remains and when divided by 5 only 3 remains.

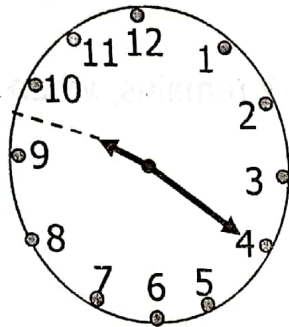
15. The diagonals of a kite measures 8cm and 12cm. If $MQ = 3\text{cm}$, calculate the area of a kite.



16. Use the distributive property to work out;
 $(23 \div 6) + (13 \div 6)$

17. A fuel tank of a car has 18 litres. It uses 0.9 litres each kilometre. How many kilometres will it cover on 18 litres?

18. Write the evening time shown on the clock face below.



19. Find the next number in the sequence below.

4, 8, 16, 32, _____



20. In the space below, draw and show the lines of folding symmetry of an equilateral triangle.



SECTION B : 60 MARKS.

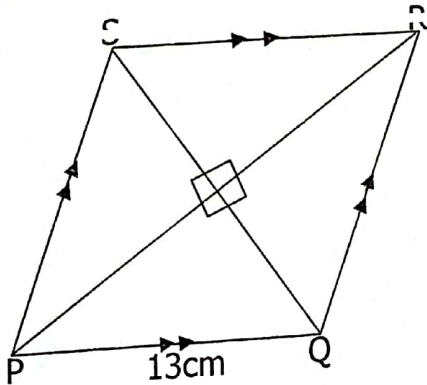
Answer **all** questions in this section.

Marks for each question are indicated in the brackets.

21. (a) Write 429 in Roman Numerals. (2 marks)

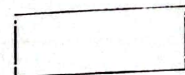
- (b) Find the value of y below. (2 marks)
 $45_y = 32_{\text{nine}}$

22. The figure below is a Rhombus PQRS whose one side is 13cm and one of its diagonals PR is 24cm. Study it and use it to answer questions that follow.



- (a) Work out its perimeter. (2 marks)

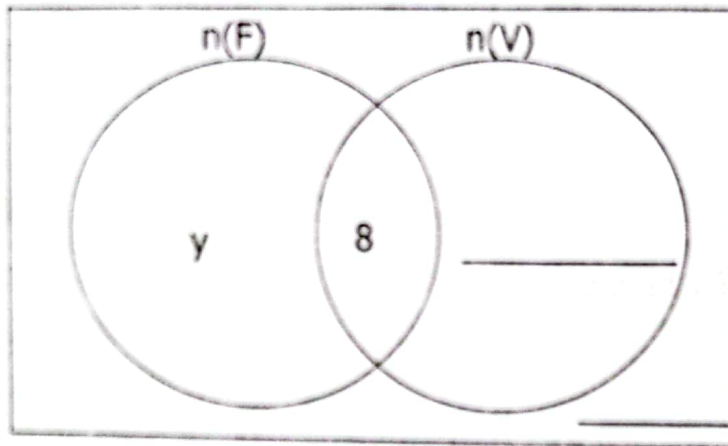
- (b) Calculate its area. (3 marks)



Turn Over

23. In a class of 40 pupils, 8 like playing both foot ball (F) and volley ball (V).
Y pupils like playing football only and 4 pupils do not like any of the two games.
If the number of pupils who like playing volley ball only is 4 more than those who like foot ball only.
(a) Complete the Venn diagram below using the information above.

(2 marks)



- (b) Find the value of y.

(2 mark)

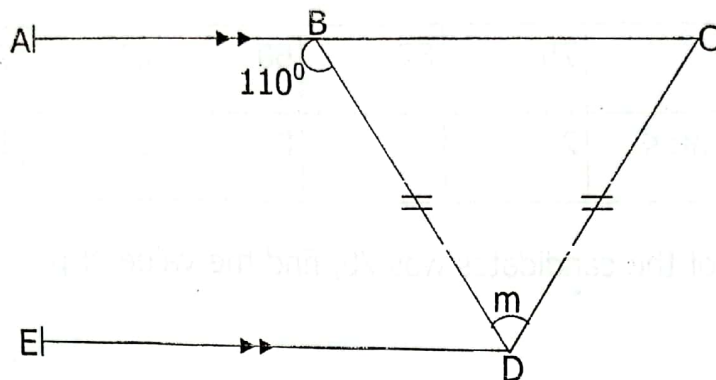
- (c) Work out the probability of picking a game prefect who likes playing only one game.
(2 marks)

- 24 The table below shows the marks obtained by some P.7 candidates in an examination. Use the information to answer the question that follows.

Marks scored	75	85	60	65	70
Number of candidates	2	2	P	2	1

If the mean mark of the candidates was 70, find the value of p . (4 marks)

25. (a) In the figure below, \overline{AC} is parallel to \overline{ED} and line $CD = BD$. Solve for the value of the angle marked m in degrees. (3 marks)



- (b) The interior angle of a regular polygon is twice its exterior angle. Calculate the size of its exterior angle. (2 marks)
26. Job, Jonan and Joan shared a certain sum of money they had saved for a certain period of time in the ratio of 2:3:5 respectively.
- (a) If Job got Shs. 150,000 less than what Joan got, find the total amount of money they shared altogether. (3 marks)

- (b) Calculate the amount of money Jonah got. (2 marks)

27. The table below shows the buying and selling rates of different currencies in Uganda Shillings at MK forex bureau in Fort portal city town. Use it to answer questions that follow.

CURRENCY	BUYING	SELLING
USA Dollars (\$)	Ug. Shs. 3550	Ug. Shs. 3750
British Pound Sterling (£)	Ug. Shs. 4200	Ug Shs. 4500
Kenya Shillings (K. Sh.)	Ug. Shs. 30	Ug. Shs. 35

- (a) How much Uganda Shillings can Tom get from a Forex bureau if he has USA Dollars (\$) 35 and 3300 Kenya Shillings. (3 marks)

- (b) How many British Pound Sterling (£) will Imam get from a forex bureau if he has 427500 Uganda Shillings. (2 marks)

28. A bus started a journey from Kisoro at 2:20p.m and reached Kampala at 8:20p.m at a speed of 60km/hr.
- (a) Find the distance from Kisoro to Kampala. (3 marks)

- (b) If the bus fare is Shs. 400 per km, how much does a passenger pay for this journey? (2 marks)

29. Kaihi is 16 years older than his sister Jane. In six years time his age will be thrice the age of his sister Jane.

(a) How old is Kaith now?

(3 marks)

(b) How old will Jane be in six years time?

(2 marks)

30. A plane flies from town K to town R on a bearing of 040° . The distance between towns K and R is 200km. It then leaves town R to town C on a bearing of 290° . The distance between towns R and C is 350km.
- (a) Sketch the journey made by a plane. (1 mark)

- (b) Using a scale of 1cm to represent 50km, draw an accurate diagram to show the journey made by the plane. (4 marks)

- (c) Find the shortest distance in kilometres from town C to town K. (1 mark)

31. In a school of 1600 pupils, there are 20% more girls than boys.

(a) Find the percentage of boys in the school.

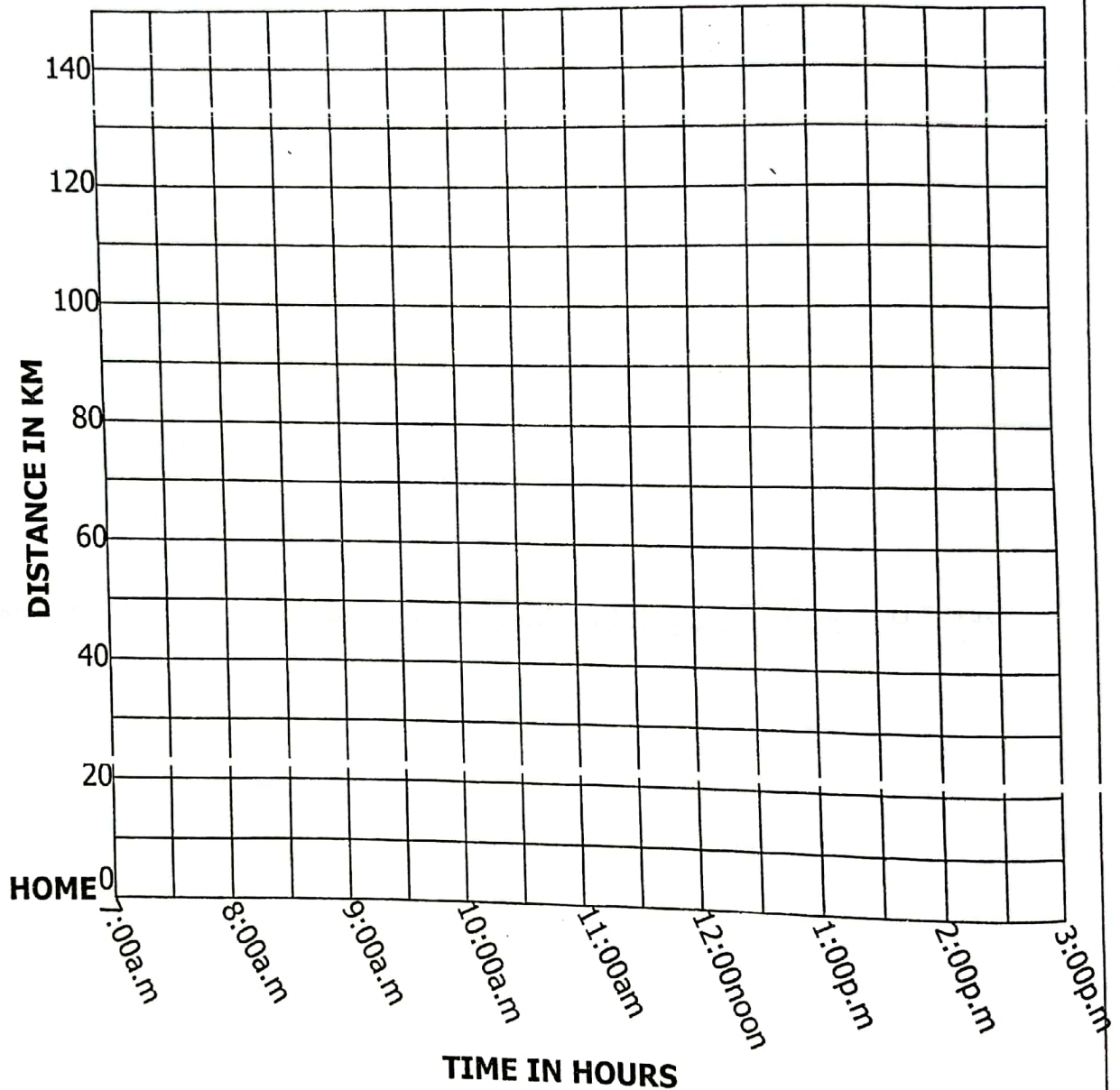
(2 marks)

(b) How many more girls than boys are in the school?

(2 marks)

32. Omondi left home at 7:00a.m and travelled 60km for 2 hours and reached town B. He rested for one hour at town B and then continued to town C at an average speed of 60km/hr for one hour. He rested at town C for an hour and returned home at a steady speed of 40km/hr.

(a) Represent the above information on the travel graph below. (4 marks)



- (b) Calculate the average speed for the whole journey.

(2 marks)

