MEVID EXAMINATIONS BOARD

PLE MOCK
2025
MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						***Personal No.***		

Candidate's Name……..

Candidate's signature:……

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions.

2. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.

3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.

4. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of mark**

5. Do not fill anything in the table indicated: **"for examiner's use only"** and boxes inside the question paper.

FOR EXAMINER'S USEONLY

Qn. No	MARK	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

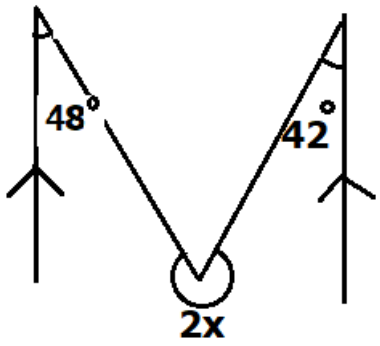
Questions 1 to 20 carry 2 marks each

1. Add 40minutes + 20minutes in hours.

2. A trader bought a dozen of pencils at sh. 3000 for every six pencils. How much did she pay for 10 pencils?

3. A cyclist rides at a speed of 120 km/h for every 2 hours. Find his speed in km/minute.

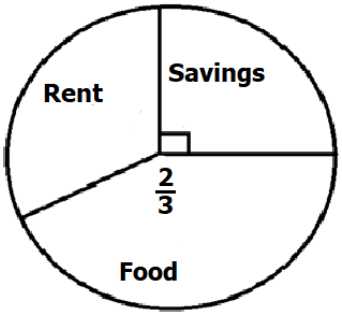
4. Find the value of x on the figure below.



5. Given that n(Z)= 14, n(Z∩B)=6 and n(B)=11, find n(ZUB)

6. Round off 24.3951 to two decimal places.

7. The pie chart below shows how a goatherd spends his monthly salary. Find the fraction of his salary spent on rent.



8. The length of a rectangle is 0.8dm and its width is 0.15dm. Calculate its area.

9. The ratio of boys to girls in a class is 2:3. When 20 more girls join the class, the ratio becomes 2:5. How many pupils are in the whole class?

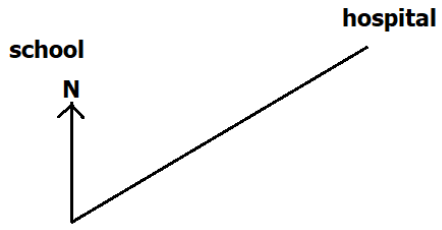
10. Work out: -2 - +5

11. An American tourist visited the bank in Uganda and exchanged US $ 235 and received Ug Sh. 857,750. Find the exchange rate at which the money was exchanged.

12. Find the next number in the sequence below.

    27 9 3 1 _____

13. On the figure below, the bearing of the school from the hospital is 230^0. What is the bearing of the hospital from the school?

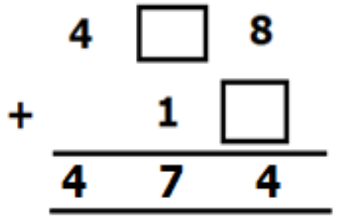


14. Using a ruler, a pencil and a pair of compasses only, construct an angle of 75^0

15. With the help of common factor property, work out; (4 x 0.3) + (1.7 x 2^2)

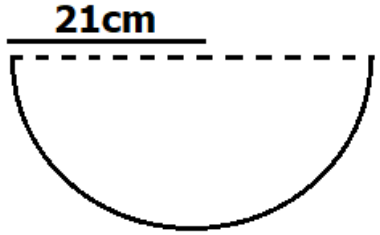
16. Write XCIV in Hindu Arabic Numerals.

17. Fill in the missing numbers in the operation below.



18. Solve for m: 2m + 17 = 5 + 5m

19. Find the arc length shown below. (Take $\pi = \frac{22}{7}$)



20. What is the square of $2\frac{1}{2}$?

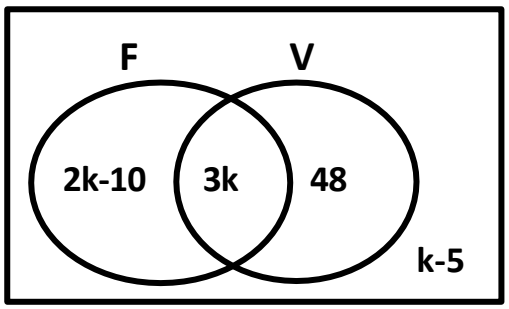
SECTION B

21. a) At a matchboxes making factory, 72,000 matchsticks are made daily. These matchsticks are packed in 40 cartons with each carton containing 12 matchboxes. If the same number of matchsticks are packed in each matchbox, how many matchsticks are packed in each matchbox? **(3marks)**

b) Mother bought three books from a shop and was given a change of sh.5500. If she went with sh. 10000 to the shop, find the cost of each book.

(2marks)

22. The Venn diagram shows pupils who move on foot(F), those who move by van(V) and those who use other means to move to school in a P.5 Class.



a) The number of pupils who don't travel by van is equal to those who travel only by van. Find the value of k. **(2marks)**

b) How many pupils are in P.5 class?

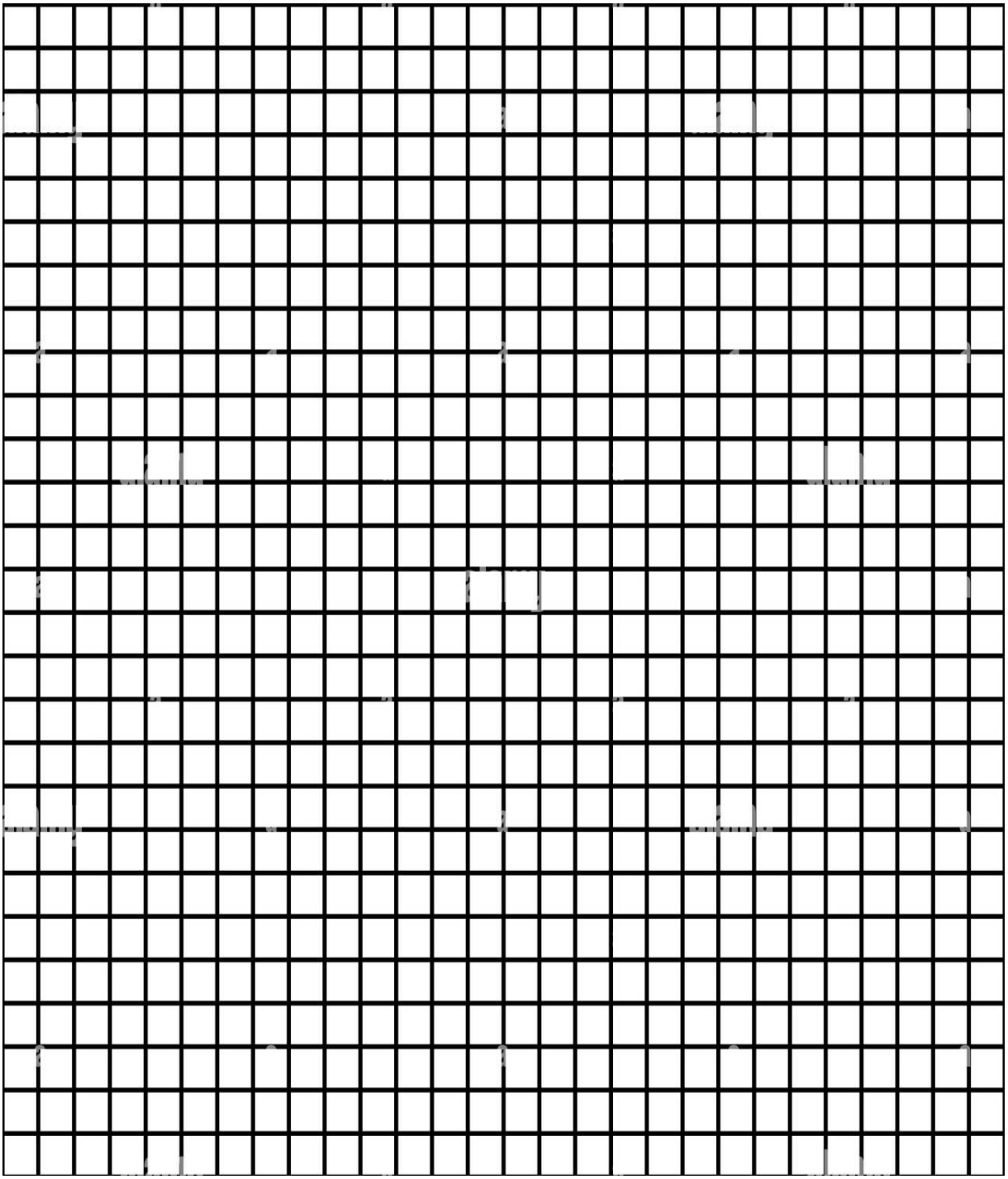
(3marks)

23. a) Whatnumber was expanded to give;(3x10x10x10)+(9 x $\frac{1}{100}$)+ 200+(7x10^0)

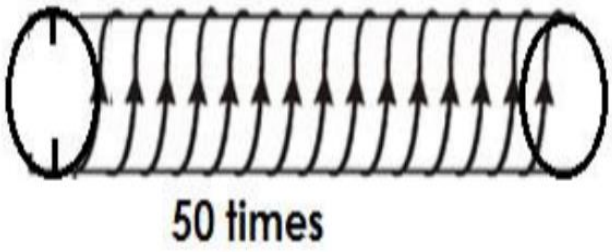
(2marks)

b) Work out: 103_{nine} ÷ 15_{nine} **(3marks)**

24. A motorist left town P at 8:30am driving at 60km/h and arrived at town Q at 10:30am. He rested at town Q for half an hour and left for town R immediately after resting. Driving at 75km/h, he finally reached town R covering a distance of 225km. Using a vertical scale of 1sq box to represent 15km and horizontal scale of 1sq box to represent 30minutes, show the motorist's journey on the graph below. **(6marks)**



25. A thread of length 4400cm was wound round a cylindrical pipe shown below.



a) Find the diameter of the wheel. (Take $\pi = \frac{22}{7}$) **(3marks)**

b) Work out the area of its circular end. **(2marks)**

26. a) John deposited sh. 60000 in his savings account in a sub county SACCO. After $2\frac{1}{2}$ years, it yielded a simple interest of sh. 8250. Find his rate of interest per annum. **(3marks)**

b) John decided to fix the whole amount for another period of 4 years at the same interest rate per annum. Find the simple interest he got after that period.

(2years)

27. The table below shows marks scored by different learners in a Science test. Use it to answer the questions given.

No of learners	2	k	5	1	3
Marks scored	70	85	56	95	80

a) Find the value of k given that 15 learners sat the test. **(2marks)**

b) Calculate the average score of learners that scored below 80.

(2marks)

28. a) Show that 4224 is exactly divisible by 11 without using division.

(2marks)

b) A poultry farmer has broilers and layers on his poultry farm. Broilers are given feeds after every 6 hours and layers after every 7 hours. The two groups of birds are always given feeds at the same time in the morning at 7:00am. After how many minutes are the two groups given feeds together again? **(3marks)**

29. A pilot left airport W for airport K on a bearing of 130^0 covering a distance of 500km. He then turned North East to fly to airport Z for a distance of 750km. Using a scale of 1cm to represent 100km, draw an accurate diagram showing the location of the three airports. **(5marks)**

30. The exchange rates at Centenary Bank on a Monday morning were as follows;

Currency	**Rate at which the bank buys**	**Rate at which the bank sells**
1 US $ dollar	Ug Sh 3,550	Ug Sh 3,600
1 Pound Sterling(£)	Ug Sh 4,900	Ug Sh 4,950
1 K Sh	Ug Sh 34	Ug Sh 35

a) If Moses visited the bank and exchanged £ 1500, how much did he get in Uganda shillings? **(2marks)**

b) A Kenyan tourist exchanged K sh 43200 with US $ Dollars to be able to pay for his accommodation in a luxurious lounge. How much in dollars did he receive? **(3marks)**

31. Betty is 20 years younger than her elder sister Moureen. In 15 years' time, Betty will be half the age of Moureen.

a) How old is Betty now? **(3marks)**

b) How old will Moureen be in 15 years' time? **(2marks)**

32. a) Solve the inequality and write the solution set;

$2m - 4 \leq 5m - 19$ **(3marks)**

b) Alice removed ice cream from the fridge. After 5 minutes, its temperature rose by 7^0C. Find its new temperature if its temperature in the fridge was -21^0C.

(2marks)