THE DREAM EDUCATION CONCERN

BEGINNING OF TERM III SET II 2024

MATHEMATICS

Time allowed: 2hours 15minutes

	Random Number							Personal No.		
Index Number:										

Candidate's Name: …………………………………………………………………

Candidate's Signature……………………………………………………………

School Name: …………………………………………………………………..

District Name: ……………………………………………………………….

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read and follow these instructions carefully

1. This paper has **two** sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **8** printed pages.

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

3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will **not** be marked.

4. No calculators or **electronic** pens are allowed in the examination room.

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

6. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

FOR EXAMINER'S USE ONLY

QN NO.	MARKS	EXR'S NO.
1 - 11		
12 - 16		
17 - 21		
22 - 24		
25 - 27		
28 - 29		
30 - 32		
TOTAL		

Turn Over

SECTION A 2 MARKS EACH (40)
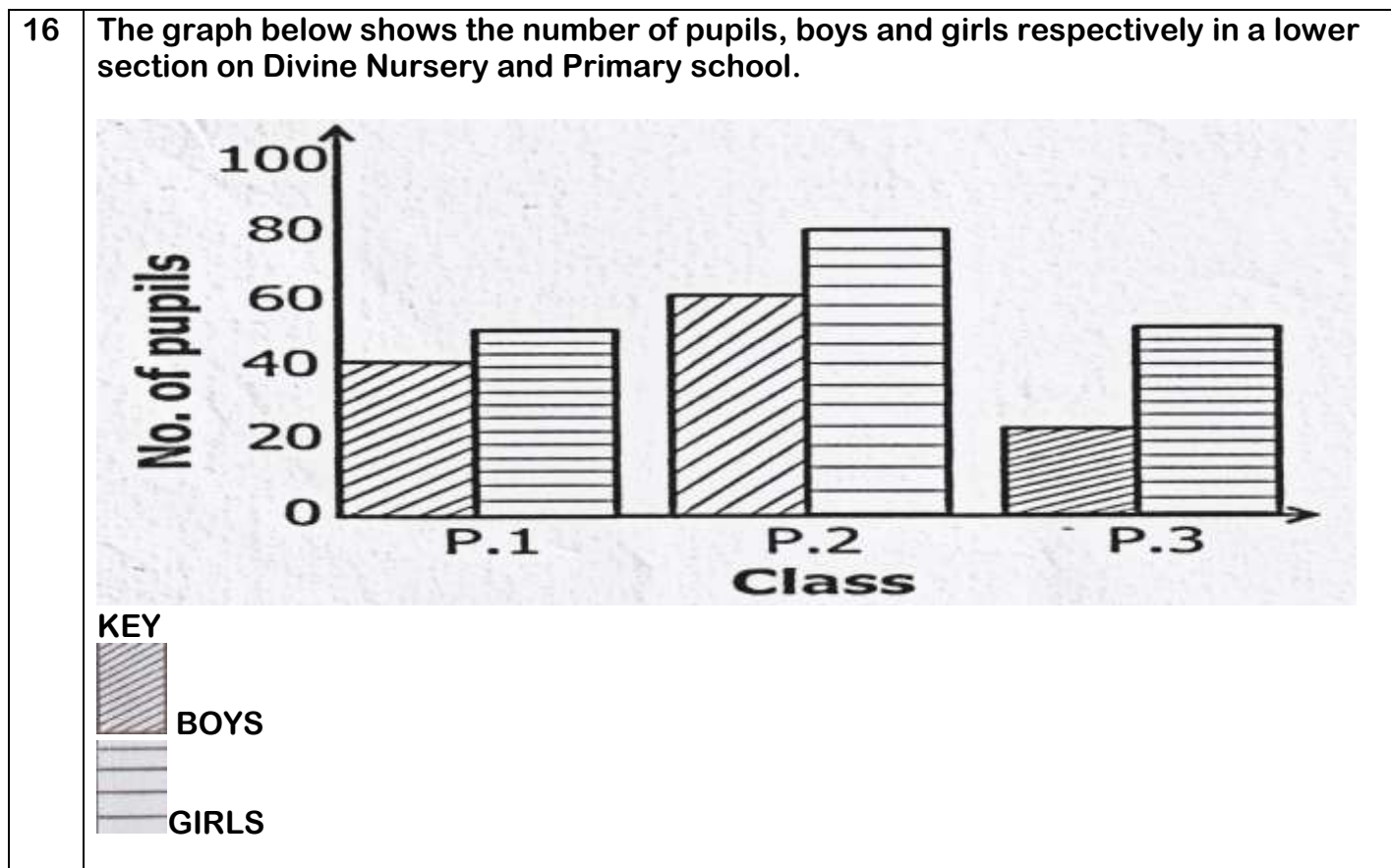
1	Work out 92-19	2	Write XLVI in Hindu Arabic.
3	Find the next number in the sequence 11, 15, 21, 29, _____	4	Express 64 using powers of 4
5	The Dream van uses 4 litres of petrol everyday. how many ¼ litre bottles of petrol does the car use in a day?	6	Simplify 8-3 (m+5)

7. Write the mathematical statement shown on the number line below
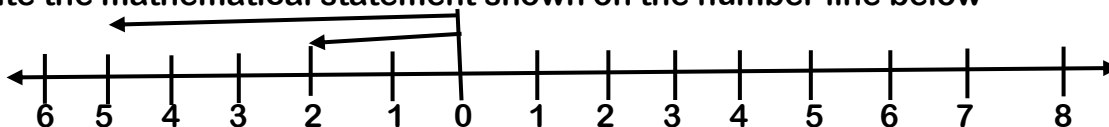
8	Using a Pair of compasses, a sharp pencil, construct an angle of 105°	9	Find the size of the angle marked D in the figure below
10	Express 120% as a fraction	11	The product of two numbers is 54. The LCM of the two numbers is 18. Find the GCF.

12	Convert 180km/ hr to metres per second.	13	Akello and Sarah shared 72 oranges in the ratio of 7:5 respectively. How many did each get?
14	Find the area of the figure below 14cm 20cm	15	The total mass of 4 girls is 146kg. The average weight of three girls is 36.1kg. Find the mass of the fourth girl.

16 The graph below shows the number of pupils, boys and girls respectively in a lower section on Divine Nursery and Primary school.

KEY

BOYS

GIRLS

Express the number of pupils in p.2 as a percentage of the total number of pupils in lower primary.

| 17 | Kisambira bought a phone at 80,000/= and sold it at 110,000/=. What profit did he make? | 18 | Use the distributive property to work out (8÷3) + (10÷3) |

| 19 | The area of a square is 64cm2. Find the length of each side of the square. | 20 | Andrew bought a car on loan from pride microfinance worth 400,000/= at an interest rate of 5% per annum for 6 months. Calculate the simple interest. |

SECTION B 5 MARKS EACH (60 MARKS)

| 21 | At a party of 16 guests, 7 ate meat (M), 10 ate fish (F), 3 did not eat yet X guests ate both.
 (a) Represent the above information on a Ven diagram.

 b) Find the value of X. |

|	
	c) Find the number of those who ate only one item.
22	Manyanyage bought 120 mangoes at school shs 120 per mango and 30 onions at shs 400 each. He later sold each mango at shs 150 and each onion at shs 500. (a)Calculate the percentage profit Manyanyage made.
23(a)	Alex sold an article at sh. 21,000 and made a profit of 20%. Calculate the cost price of the article.
(b)	Brenda sold a pair of shoes at sh.45,000, she made a loss of 10%. Calculate the cost price of the pair of shoes. How much money did she lose?
24	Find the size of angle X, M and P
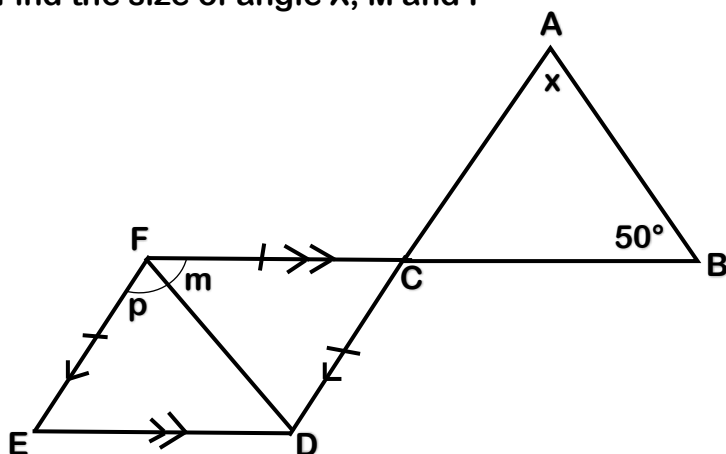
25	Find the area of the shaded part in the figure.
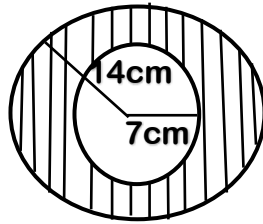
26	Town A is 30km West of town B and town C is 40km from B on a bearing of 150°. Using a scale 1cm = 10km, what is the shortest distance between town A and town C?

Sketch

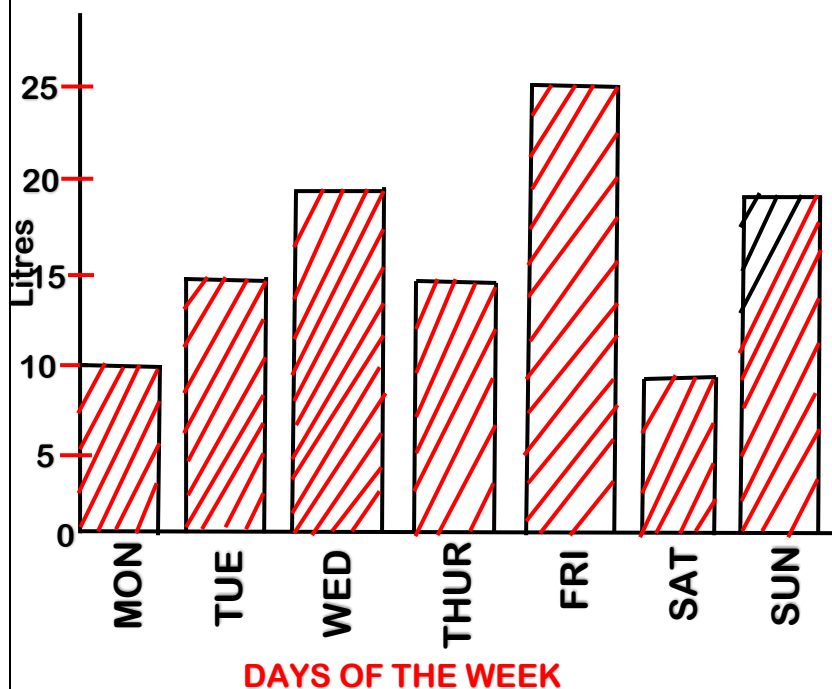**Solution process**
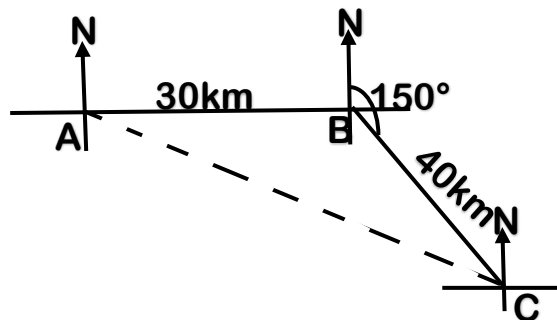
Distance	Actual distance	Bearing	Drawing length
From A to B	30 km	090°	$\frac{30}{10}$ = 3cm
From B to C	40 km	150°	$\frac{40}{10}$ = 4cm

27	The graph below represents the amount of milk in litres got from a cow on different days of the week.

a) On which day of the week did the cow give more milk?

b) Find the median of the milk collected in the week.

c) What was the least number of litres produced?

d) What is the range in the milk production?

e) Find the total number of litres produced by the cow in the week.
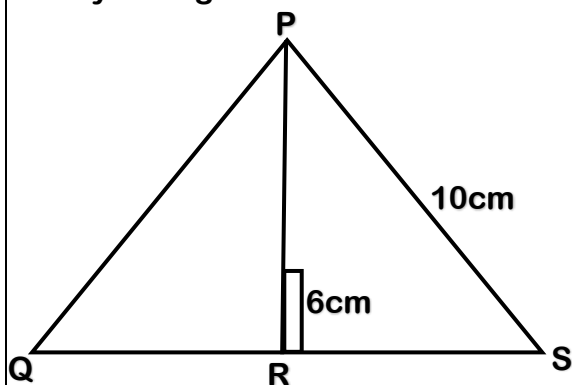
28	Given 9, 2, 6, 5, 6, 3 and 4, Work out; a) The mean b) The Mode	c)The range d) Median

29	Study the figure below where as PS = PQ = 10cm, PR = 6cm and bisect < P

a)Find the length of QS.

c) Find the area of the figure.

	b) Calculate the perimeter of the figure.
30	Joel deposited sh. 120,000 in the bank that offers an interest rate of 10% per year. a)Calculate the interest got after 2 years. b) Calculate the amount collected after 2 years.
31	Construct triangle ABC where line AB = 6cm, angle A = 90° and angle B = 45°. Measure line AC, BC, and angle C.
32	When 240 is decrease it becaomes 192. Calculate the percentage decrease.