THE REPUBLIC OF UGANDA

LYANTONDE DISTRICT ACADEMIC BOARD

MOCK 2023

MATHEMATICS

Time allowed: **2 hours   15 minutes**

	School EMIS						Personal No.			
Index No. :										

Candidate's Name   : ....

Candidate's Signature : ....

School Name   : ....

District Name   : ....

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary crossing of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated; For Examiner's use only.
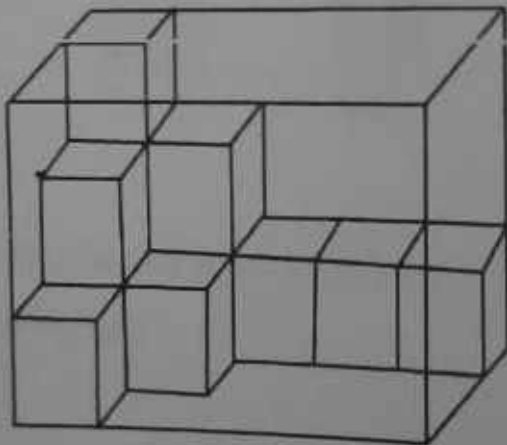
(b) Daniel has a cousin who is 12 years older than him. His cousin is currently 4 times his age. How old will Daniel be in 5 years' time?

(02 marks)

32. The figure shows a rectangular glass box filled with unit cubes of $64cm^3$ each. Use it to answer the questions that follow.
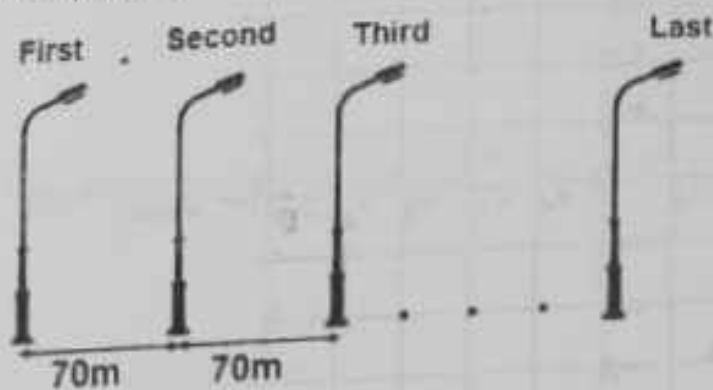

a) Calculate the length of the glass box.

(03 marks)

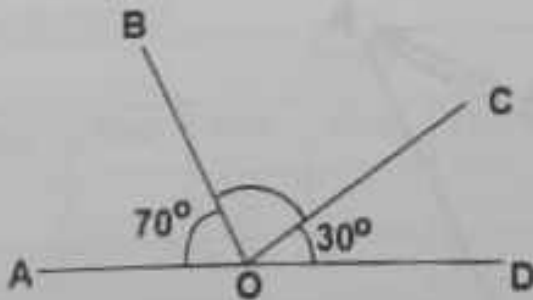b) How many more similar cubes are need to fill the glass box?

(02 marks)

7. There are 10 lamp posts along Oxford Road. The distance between every two lamp posts is 70m. What is the distance between the first and the last lamp post?
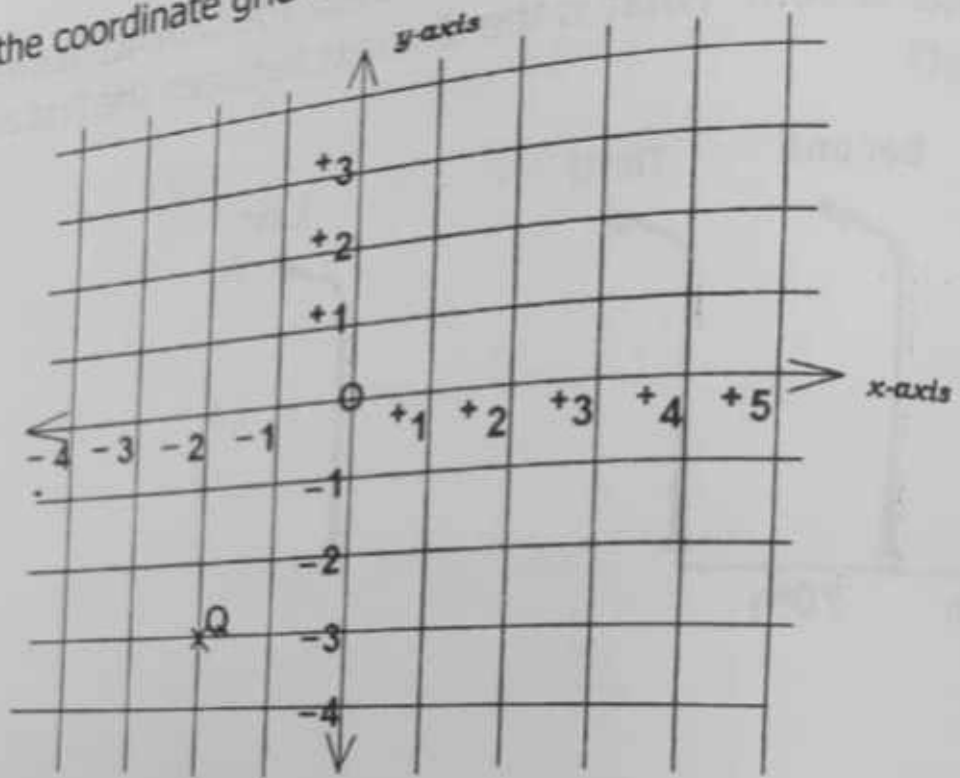
First   Second   Third   Last

70m   70m

8. There are 10 boys and 30 girls in a class. What percentage of the pupils in class are boys?

9. In the figure, AOD is a straight line. $\angle AOB = 70°$ and $\angle COD = 30°$. What $\angle BOC$?

10. Carrie, Devina and Farinah weigh 42kg, 51kg and 39kg respectively. What is their average weight?

11. Use the coordinate grid below to answer questions (a) and (b).
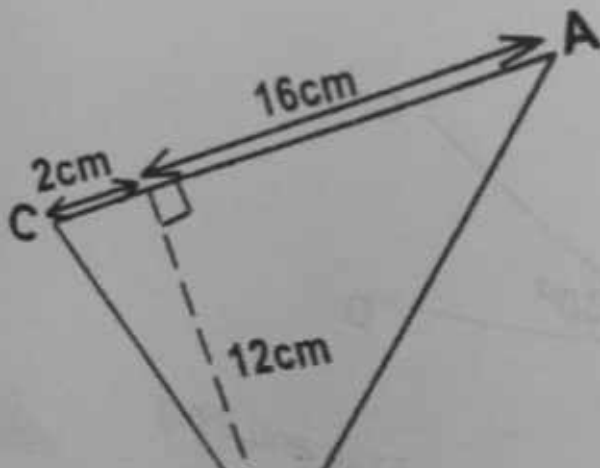

a) State the co-ordinates of point **Q**.   (01 mark)

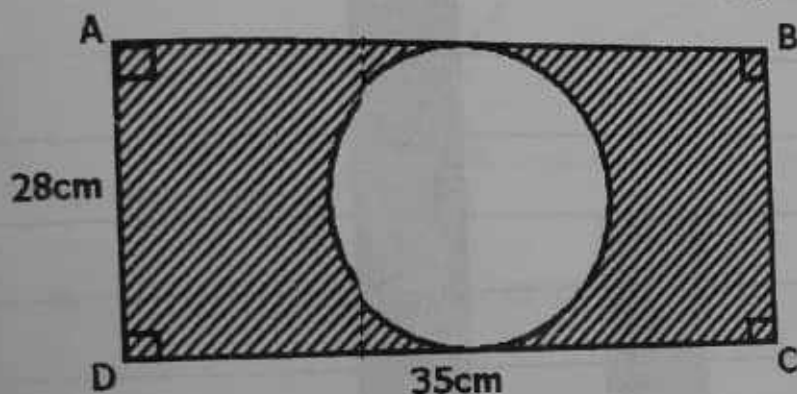b) Plot the co-ordinates **S(4, 0)**.   (01 mark)

12. Calculate the area of triangle ABC.

16.
plan
atte

15.

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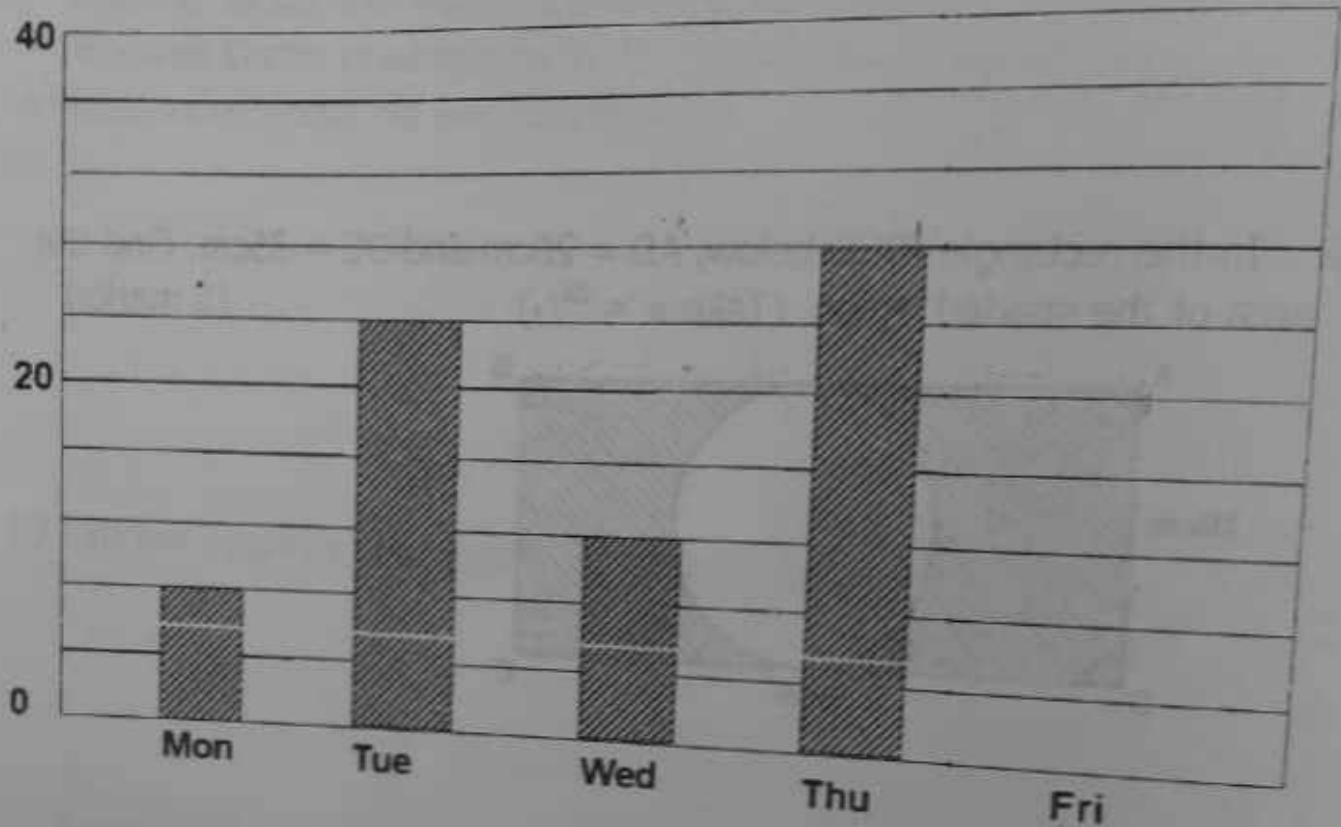b) $1\frac{2}{5} \times 1\frac{1}{2} \div 3\frac{1}{2}$

(2marks)

26. In the rectangle ABCD below, AD = 28cm and DC = 35cm. Find the area of the shaded region. (Take $\pi = \frac{22}{7}$) (5 marks)

27. (a) Using a ruler, a pencil and a pair of compasses only, construct parallelogram ABCD such that line AB = 7cm, BC = 5cm and angle AB = 120°. Drop a perpendicular from **D** to meet **AB** at **M**.

(05 ma

28. Mr. Siah had some shirts and sold all of them by Friday. The graph below shows the number of shirts sold by him from Monday to Friday. The bar for Friday is not drawn.
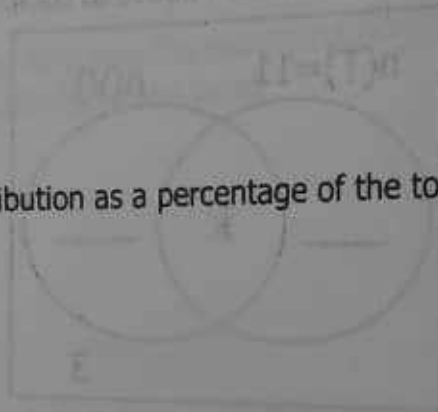

a) If he sold $\frac{3}{7}$ of the shirts from Monday to Thursday. How many shirts did he sell on Friday?

(03 marks)

b) Each shirt was sold at sh.5,000, how much money was collected from the sale of all the shirts on Friday?

(02 marks)

23. Aggrey, Jacob and Moses contributed 1200 goats to village members towards Easter celebrations in the ratio of 3:5:2 respectively.
    a) How many goats did each contribute?   (03 marks)

    b) Express Aggrey's contribution as a percentage of the total.
                                                                          (02 marks)

24. Judith went to the supermarket with shs. 45,000 and bought the following items.

    - 3kg of rice at shs. 2500 per kg
    - 2 loaves of bread at shs. 3800 per loaf
    - 1 ½ litres of cooking oil at shs. 2000 each litre
    - 500 gm of blue band for shs 6000 a kg

    What was his total expenditure?
                                                                          (5marks)

25. a) Workout: $\dfrac{0.45 \times 0.66}{1.1 \times 1.5}$

                                                                          (3 marks)

8

13. The bearing of town **Q** from town **R** is 060°. Find the bearing of town **R** from town **Q**.

14. Work out the value of **m** in $2^{2m} \times 2^2 = 64$

15. The prime factors of **W** and **Y** are given below.

$$W = \{2_1, \ 3_1, \ 5_1\}$$

$$Y = \{3_1, \ 3_2, \ 5_1\}$$

Use them find the Lowest Common Multiple of **W** and **Y**.

16. The table below shows the month of April in one year. Mr. Osman plans to attend a course 38 days after 12th April. Which day will he be attending the course?

April						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	17	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

17. There are 184 087 people living in Toa Payoh village. Express the number to the nearest thousand.

18. A piece of string 88m long fits exactly round Ojok's circular pond. Calculate the diameter of the pond.

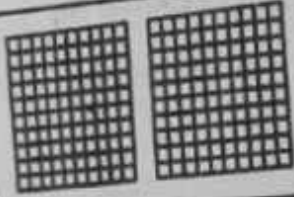19. Using a ruler, a pencil and a protractor, draw an angle of 235°.

20. It took Mazrui $3\frac{1}{2}$ hours to travel from his home to town. If he travelled at a speed of 96km/h, how far was his home from town?

1. Work out: 1 2 – 9

2. Write the number represented on the place value chart in words.

Hundreds	Tens	Ones

....
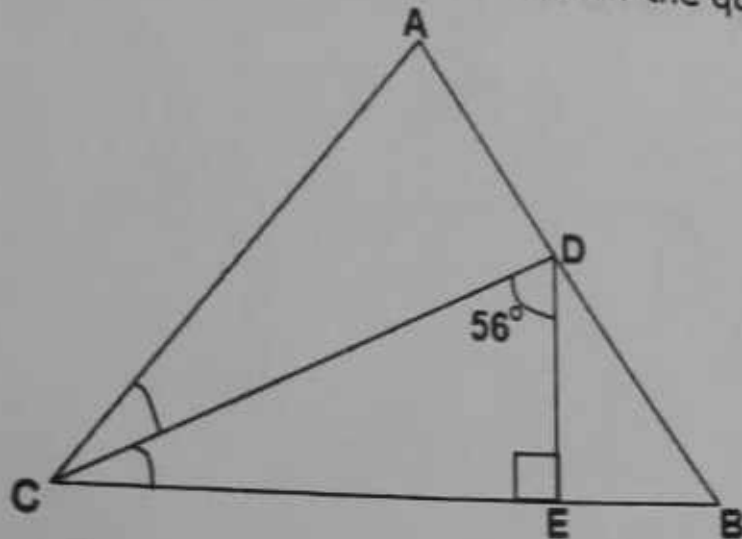
3. Express CDIX in Hindu Arabic numerals.

4. Mr. Ong has 180 apples. He packs all of them into boxes. Each box contains 12 apples. How many boxes are needed to pack all the app

5. If **S** = 2, 3, 4, 5, 6} ,**T** = {1, 2, 3, 4, 5} and **Y** = {5, 6, 7, 8, 9}. Find the number of subsets in (Y – T).

6. Raymond started playing soccer at 2:35p.m. He stopped playing a 4:05p.m. How long did he play?

2

29. In the figure below, not drawn to scale, ABC is an equilateral triangle and <CDE = 56°. Study it carefully and answer the question that follows.

Find the size of angle ACD. (04 marks)

30. A watch gains 5 seconds every hour. It was set right on Tuesday a 12:39p.m. What time will it show the following Tuesday at 12:39p. (04 ma

MY MOUTH IS FILLED WITH

Your Praise,

DECLARING YOUR SPLENDOR

all day long.

PSALM 71:8