

SECTION A :40 MARKS
Questions 1 to 20 carry 2 marks each

1. Work out: **6 + 13**

2. Write **5,050** in words.

3. Show the time '**five minutes to six**' on the clock face below



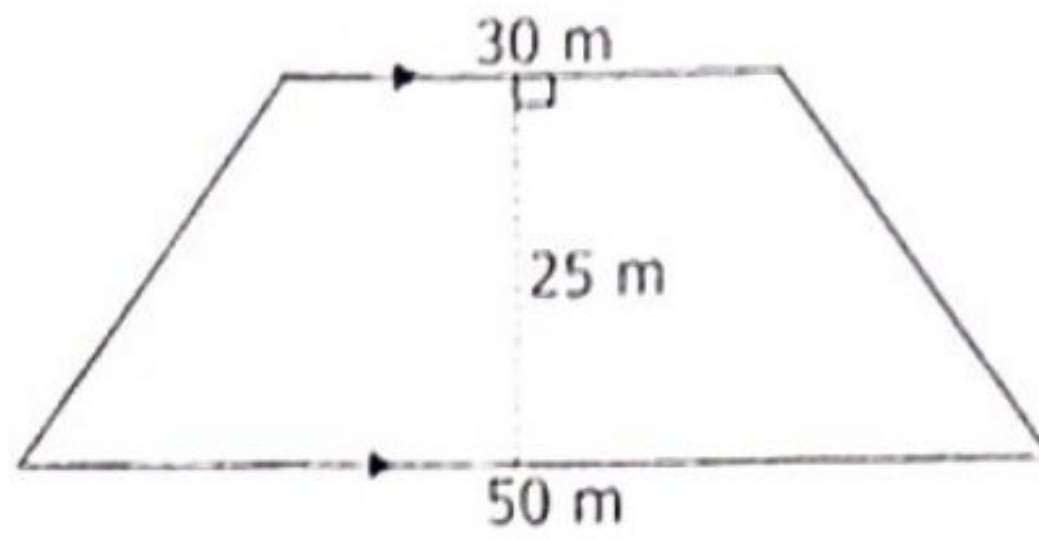
4. Simplify: $\frac{1}{2} - \frac{1}{3}$

5. Find the next number in the sequence;

1, 2, 5, 10, 17, _____

6. The exterior angle of a regular polygon is **72°**. Find the size of its interior angle.

7. Mulinde's piece of land is in form of the shape below.
Find the area of the piece of land.



8. Find the **GCF** of **24** and **30**.

9. Acham bought a dozen of exercise books at **Sh.10,400** and sold all the books at the same price. When she sold **8** of the books, she got back the money she spent on buying the books. Calculate the profit she made.

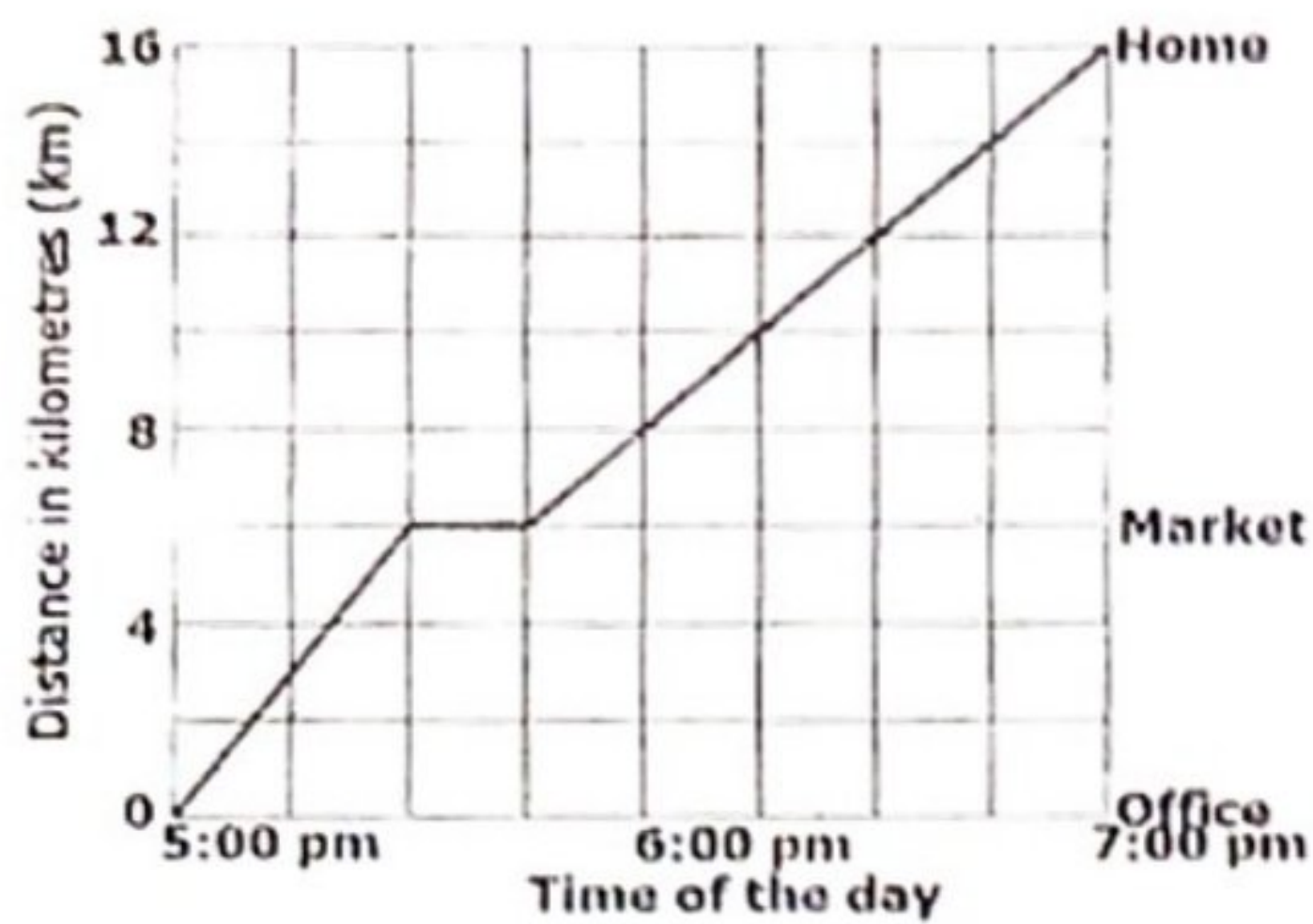
10. Solve: $\frac{15}{m} \leq 5$

11. Find the diameter of a circle whose circumference is **22 cm**. (use $\pi = \frac{22}{7}$)

12. Six men take **5 hours** to do a piece of work. How many men are required to do the same piece of work in **3 hours** working at the same rate?

13. Work out: **5 – 3 (Finite 7)**

14. The travel graph below shows Batte's journey from office via the market to his home.

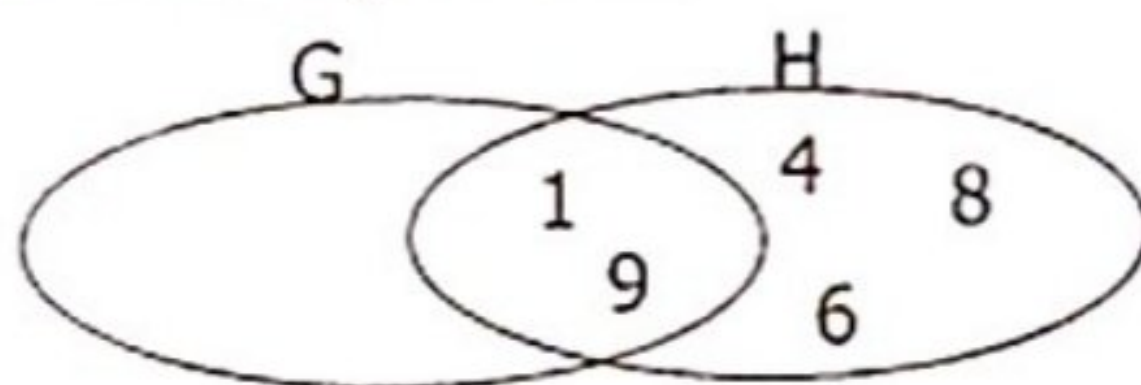


Calculate Batte's average speed for the whole journey.

15. Write **764** in expanded form.

16. With the help of a ruler, sharp pencil and a pair of compasses only, construct an angle of 75° in the space provided below.

17. Given that $G \cup H = \{\text{all counting numbers less than 10}\}$.
Complete the Venn diagram below



18. Express $0.4545\ldots$ as a common fraction in its simplest form.

19. Given that $a=5$ and $b=4$, find $\sqrt{a^2 - b^2}$

5

20. Express **18Km/h** to **m/s**.

SECTION B: 60 MARKS

Answer all questions in this section

Marks for each Question are indicated in the brackets.

21. Sandra spent **Sh.50,000** to buy all the items below:

$1\frac{1}{2}$ kg of meat at sh.14,000 per kg

2 loaves of bread each at Sh.4300

3 litres of milk at Sh.1,800 each litre

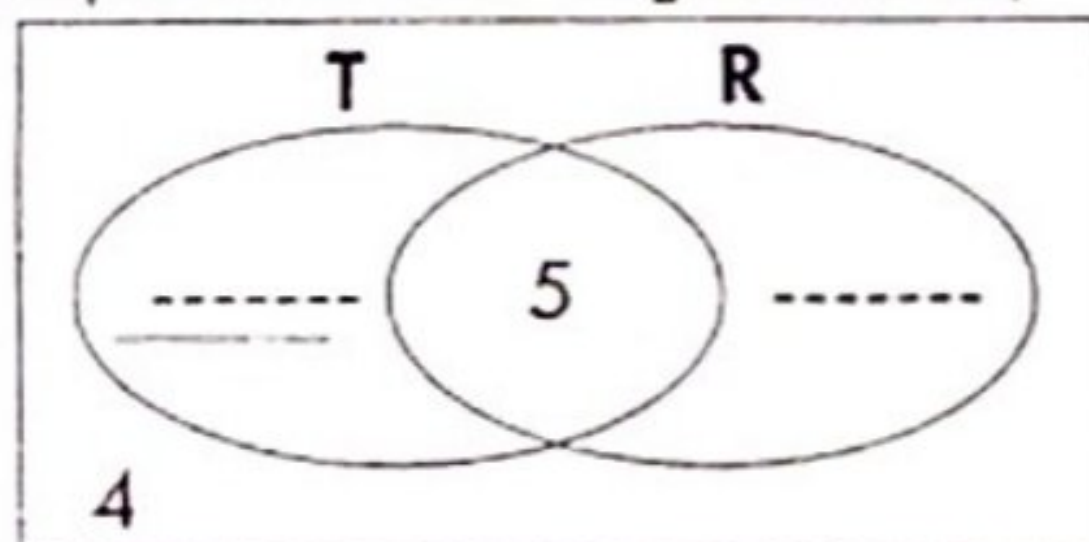
A bunch of matooke.

Calculate the amount of money Sandra spent on buying matooke.

(05marks)

22. Out of **27** families, **5** own both **TVs (T)** and **Radios (R)**. **y** families own **TVs** and **13** families own radios. **4** families do not own the mentioned items.

(a) Complete the Venn diagram below;



(02marks)

(b) Find the value of y .

(02marks)

(c) How many families own only one of the mentioned items?

(02marks)

23.(a) With the help of a ruler sharp pencil and a pair of compasses only, construct a triangle **KLM** in which angle **KLM** = 30° , line **LM** = 8 cm and angle **KML** is a right angle. (04marks)

(b) Measure length **KL** = _____ cm

(01mark)

7

24. A milk can was $\frac{1}{5}$ full of milk. Matayo added 16 litres of milk into the can and it became full.

(a) How many litres does the can hold when full?

(02marks)

(b) How many 500 milliliters cups of milk were in the can before adding the 16 litres?

(03marks)

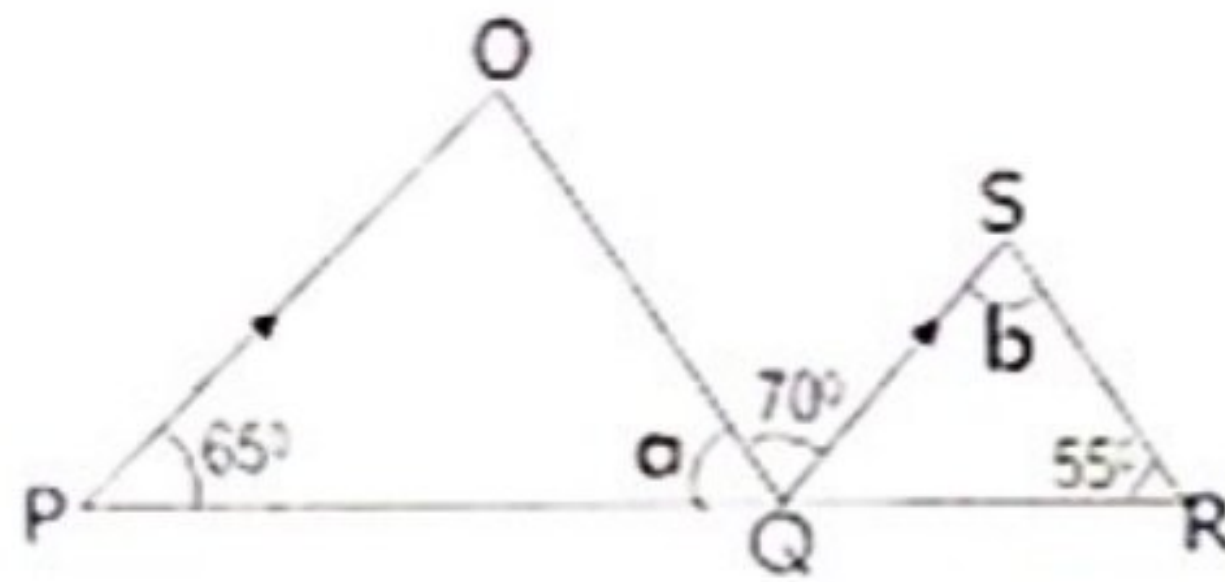
25.(a) Work out: $110_{\text{two}} \times 11_{\text{two}}$

(01mark)

(b) Express 200_{five} to binary

(03marks)

26. In the figure below, line **OP** is parallel to line **QS**. Angle **OPQ** = 65° , angle **OQS** = 70° and angle **SRQ** = 55° . Study the figure and use it to answer the questions that follow



Find the size of;

- (a) angle **a**

(03marks)

- (b) angle **b**

(02marks)

27. In a P.7 class, there are 125 pupils. 40% of them are girls.
(a) Find the number of boys in the class.

(02marks)

(b) By what percentage is the number of girls less than that of boys?

(02marks)

28. The table below shows marks scored by pupils in a mathematics examination.

Marks scored	100	80	60	50
Number of pupils	15	5	10	20

(a) How many pupils did the test?

(02marks)

(b) Find the modal score

(01marks)

(c) Calculate the mean mark

(03marks)

29. Solve;

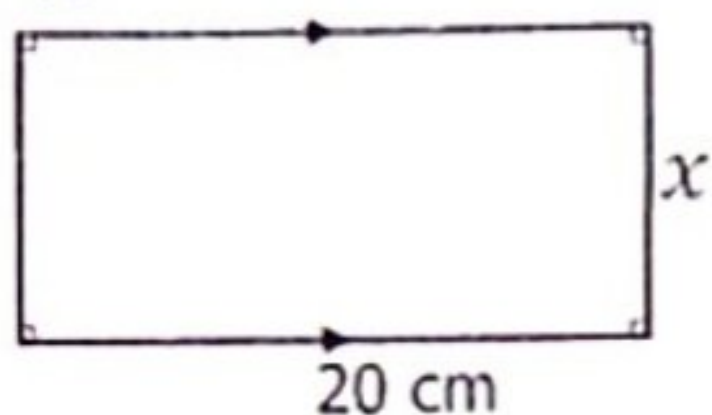
(i) $5(e - 4) = 3e$

(03marks)

(ii) $p - \frac{1}{4}p = 15$

(02marks)

30. Aziza makes rectangular table mats whose length and width are in the ratio of 5:3 respectively, shown below.



(a) Find the width marked x of the table mat.

(02marks)

(b) Calculate the area of the table mat.

(02marks)

31. The table below shows how a motorist travelled from town **A** to town **D** through towns **B** and **C**. Study and use it to answer questions that follow

Town A	Departure	9:00a.m
Town B	Arrival	10: 45a.m
	departure	11:00a.m
Town C	Arrival	12:50p.m
	Departure	1:05p.m
Town D	Arrival	2: 30p.m

(a) At what time did the motorist leave town **B**?

(01 mark)

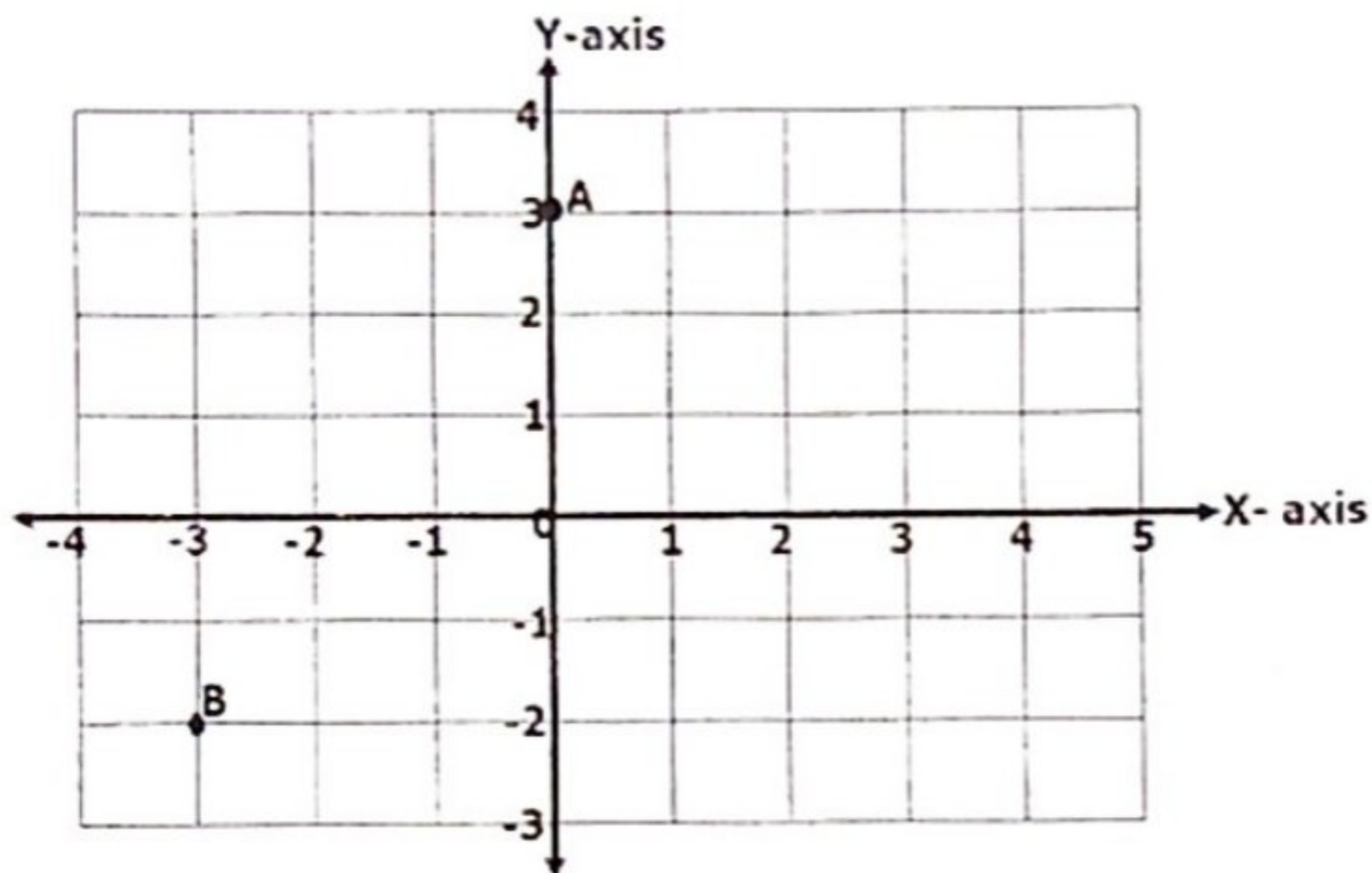
(b) Find the total stoppage time of the motorist

(02 marks)

(c) How long did the motorists journey take?

(02 marks)

32. Study the coordinate graph below carefully and use it to answer questions (a), (b) and (c) that follow.



(a) Write down the coordinates of the plotted points **A** and **B**.

i) **A**

ii) **B**

(02marks)

(b) Plot the points **C (1, -2)** and **D(4, 3)** on the graph.

(02marks)

(c) Join **A** to **B**, **B** to **C**, **C** to **D** and **D** to **A** and find the area of the geometric figure formed.

(02marks)

THE END