DATA HANDLING
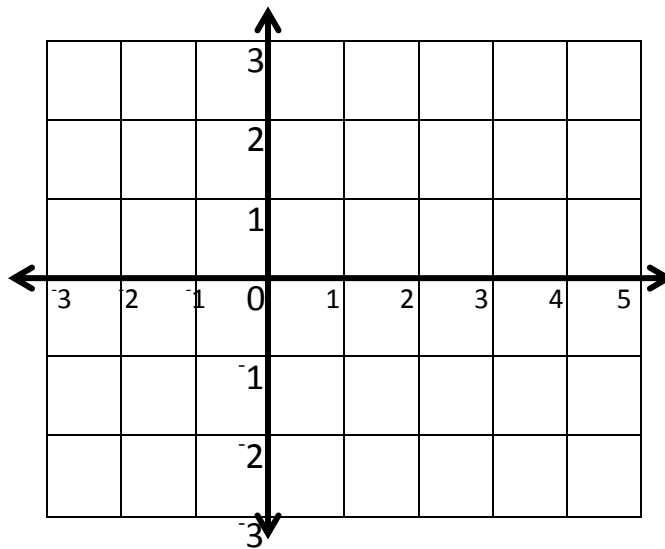
1. The table below shows the goals scored by some teams in a netball competition.
   Use it to answer the question that follows.

Goals	25	20	15	12	30	10
Number of teams	2	1	3	4	3	5

How many teams scored less than **20** goals?

2. On the graph below , plot the points **A($^-$2,$^+$3), B($^+$5,$^+$3),C($^-$2,$^-$1) and D($^+$1,$^-$1)**
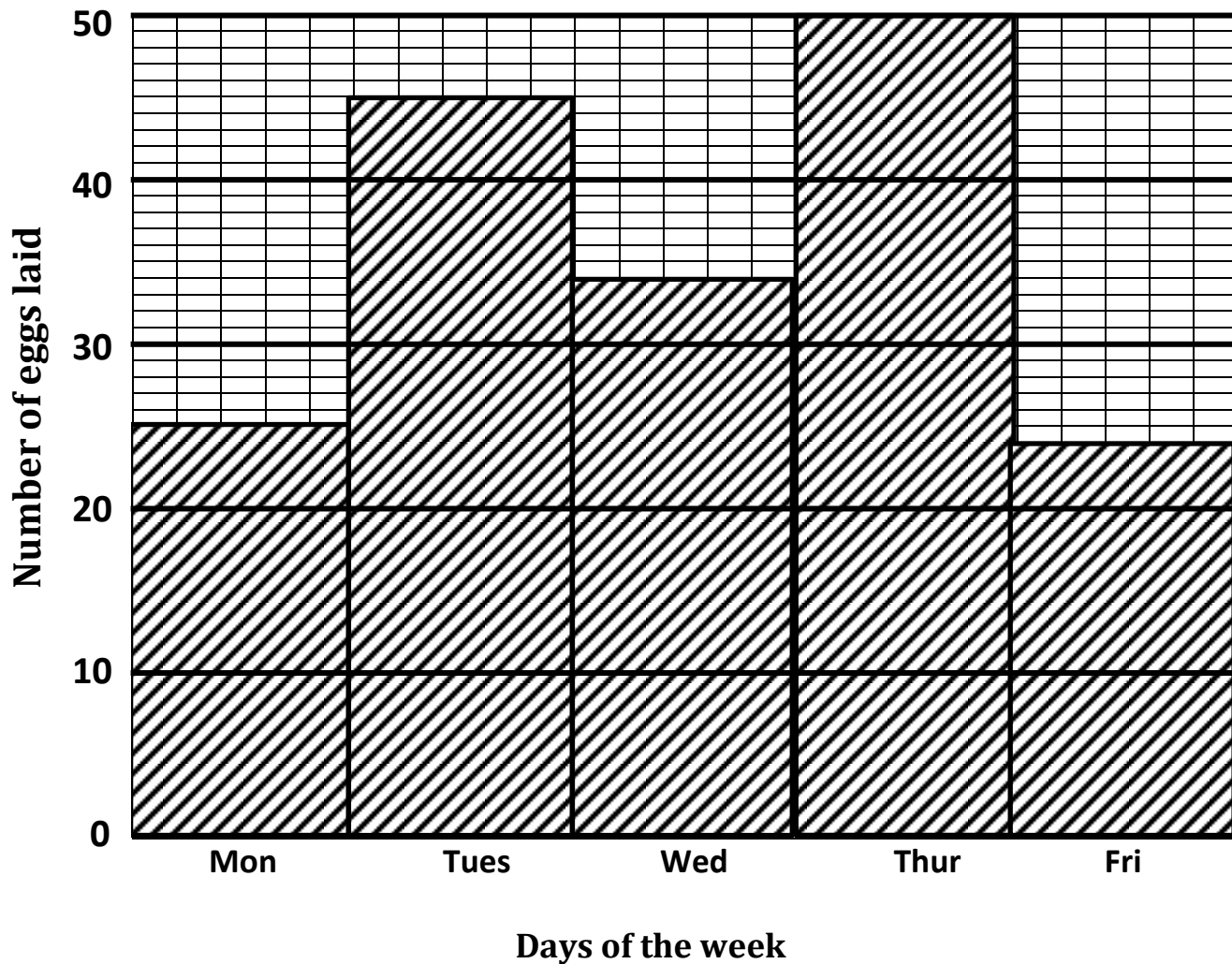

(b)Join A to B, B to D, D to C and C to A.

(c)Name the quadrilateral formed after joining the points.

3. The bar graph below shows the number of eggs laid by chicken in Opio's farm from Monday to Friday,
   Study and use it to complete the table.

Days of the week	Mon	Tue	Wed	Thur	Fri
Number of eggs laid	25	45	......	50	.....

Days of the week

4. Pupils did a test and scored the following marks as shown in the table below.

Marks	50	k	45	80
No. of pupils	2	6	3	4

(a) How many pupils did the test?

(b) Find the value of k if the mean mark was 61.

(c) What was the range of the marks?

5. The pictograph below represents the number of patients who were admitted in a hospital on a certain day. Study and use it to answer the questions that follow.

Men's ward	𝕏 𝕏 𝕏
Children's ward	𝕏 𝕏 𝕏 𝕏
Women's ward	𝕏 𝕏 𝕏 𝕐
Maternity ward	𝕏 𝕐

𝕏 represents **10 patients**.

(a) How many patients were admitted in the hospital on that day?

(b) Find the ratio of patients in the women's ward to those in the children's ward in the simplest form.

(c) Express the number of patients in the men's ward as a percentage of the total number of patients.

6. The graph below shows the temperature of a patient in a hospital taken from 7:00am to 12:00 noon in a day. Use it to answer the question that follows;
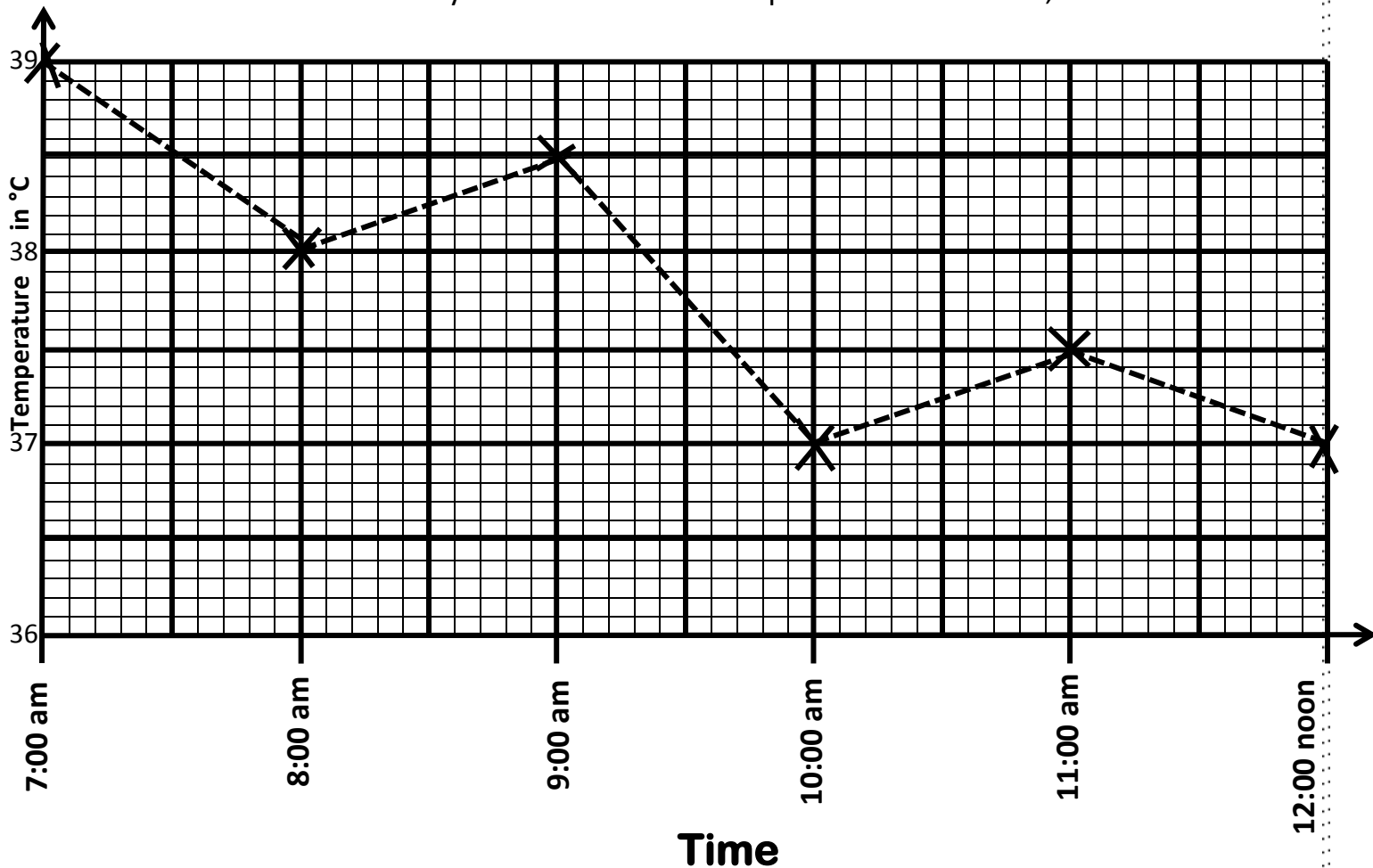
Time

What times of the day was the temperature of the patient the same?

7. The pie chart below shows how a farmer uses her land. Use it to answer the question that follows.
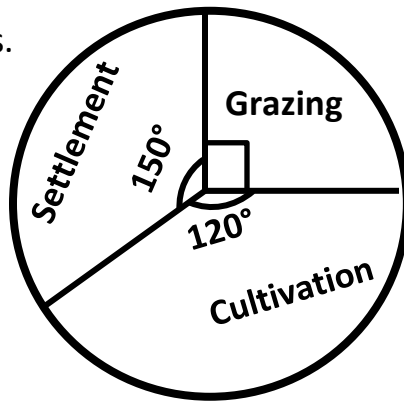
Calculate the size of her land if she uses 72 acres for cultivation.

8. (a) The mean of the numbers 7,9,5, X+2 and 6 is 8.Find the value of X.

(b) In a bag there are 15 pens. Out of these 4 are red and the rest are blue. What is the probability that a pen picked at random from the bag is blue?

9. In a car park there are 192 cars. The probability that a car picked random from the park is made in Japan is $\frac{5}{8}$. How many cars are not made in Japan?

10. A fruit seller sold the following number of mangoes in six days:

   60,35,40,28,42 and 35.

   (a) What is the modal number of mangoes sold?

   (b) Work out the mean number of mangoes sold.

   (c) By the end of the seventh day, the mean number of mangoes sold was 44. How many mangoes were sold on the seventh day?

11. A wire of length 161 metres was shared by some boys. The average length of wire each boy got was 23 metres. Find the number of boys who shared the wire.

12. The pie chart below shows how the pupils of Mpaata Primary School are distributed in various clubs in the School. Use it to answer the questions that follow.
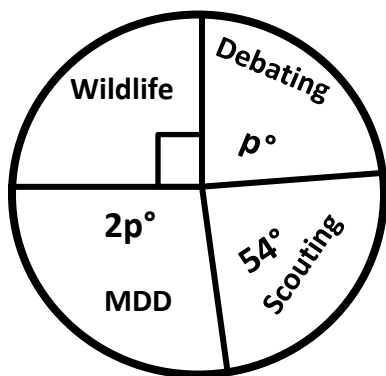
(a) There are 216 pupils in the debating club.
Find the number of pupils in the school.

(b) Express the number of pupils in the debating club as a percentage of the whole class.

13. A box contains 20 pens. 10 are blue, 7 are red and the rest are black. A pen is picked at random from the box, find the probability that it is a black pen.

14. The graph below shows the number of pupils present in a class of 40 pupils in a certain week. Study it and use it to answer the question that follows.
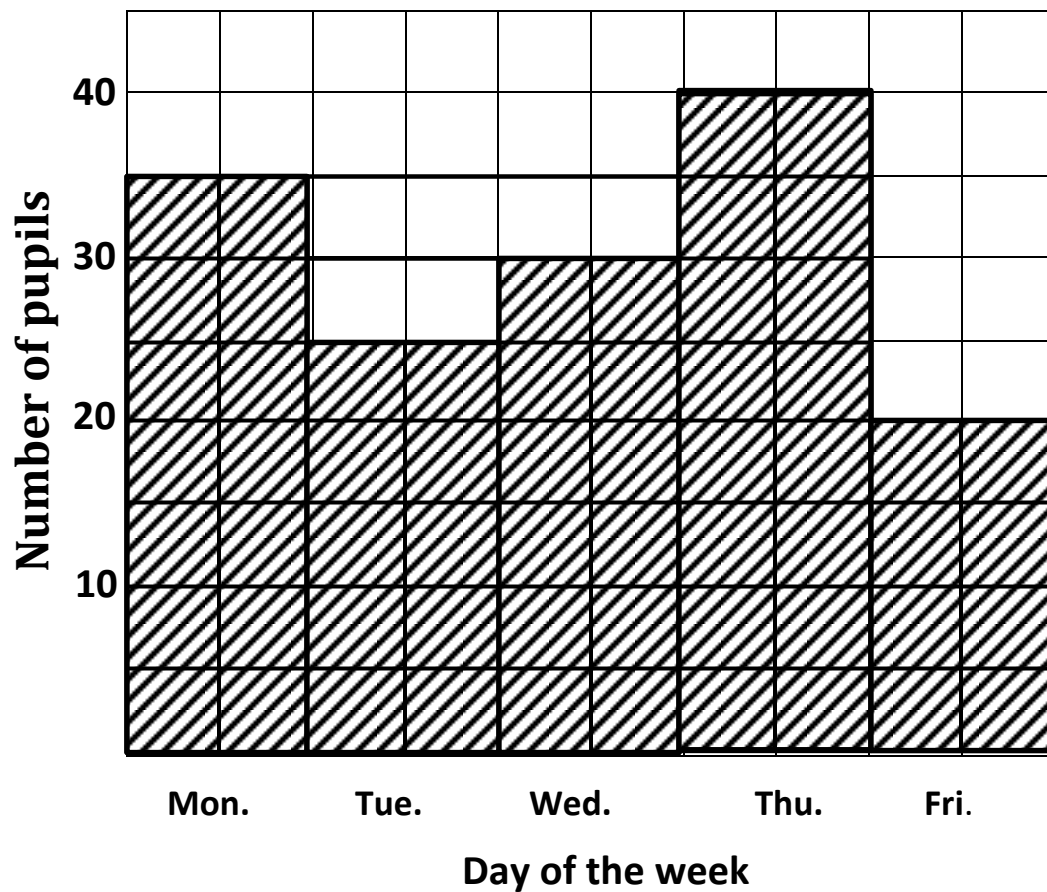
Find the number of pupils who were absent on Tuesday.

15. Study the coordinate graph below and use it to answer the questions that follow.

(a) Write the coordinates of point **A**.

(b) Plot the points **B(2,2)** and **C(⁻1,⁻4)**
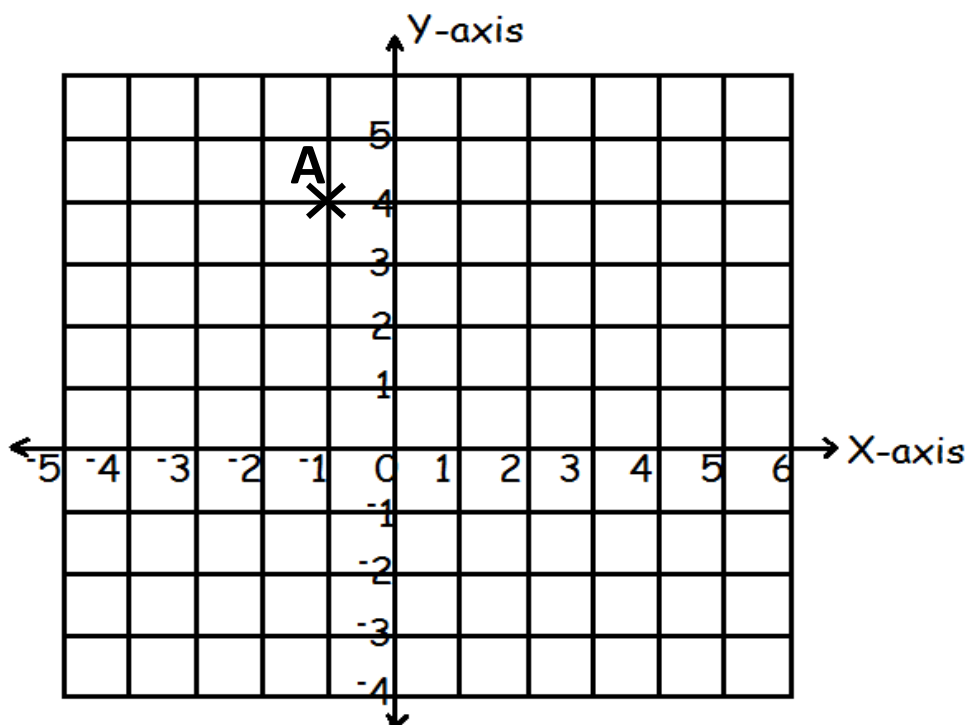
(c) Join points **A** to **B** and **B** to **C**.

(d) Locate a point **D** on the graph; join it to **A** and **C** such that **ABCD** is a kite.

16. A teacher counted pupils without school uniform in a class and tallied them as follows:

~~HHH~~ ~~HHH~~ ~~HHH~~ ~~HHH~~ ////.

How many pupils were without school uniform?

17. The following heights of six children were recorded at a health centre:
53cm,64cm,59cm,51cm,63cm and 61cm.
Find the median height of the children.

18. The average weight of four boys is 56kg.When two other boys join the group, the average weight becomes 52kg.The sixth boy is 8kg heavier than the fifth boy. Find the weight of the sixth boy.

19. Given that ⛄ represents 26 girls in a class and 🧍 represents 20 boys in the class.

Find the total number of pupils represented by: 🧍⛄⛄ .
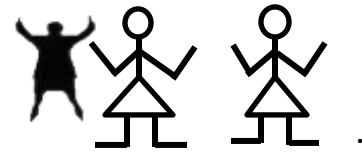
20. Study the coordinate graph below and use it to answer the questions that follow.
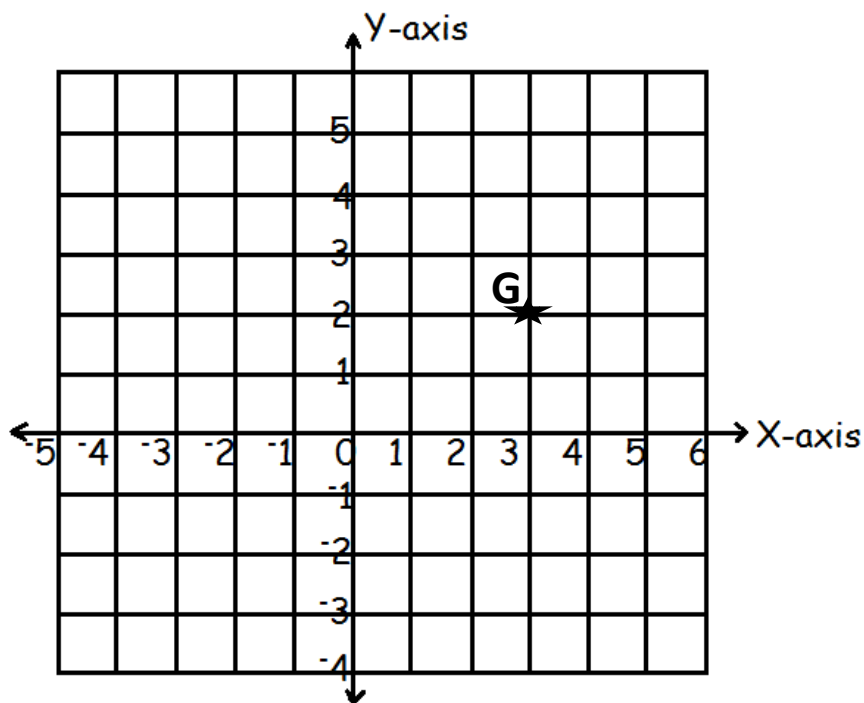
(a) Write the coordinates of point **G**

(b) Plot the point **H(⁻3,0)** on the coordinate graph .

21. The table below shows the marks obtained by some pupils in a test. Use the information to answer the question that follows.

Marks	40	m	60	70
Number of pupils	2	6	3	3

If the mean mark of the pupils was 55, find the value of **m**
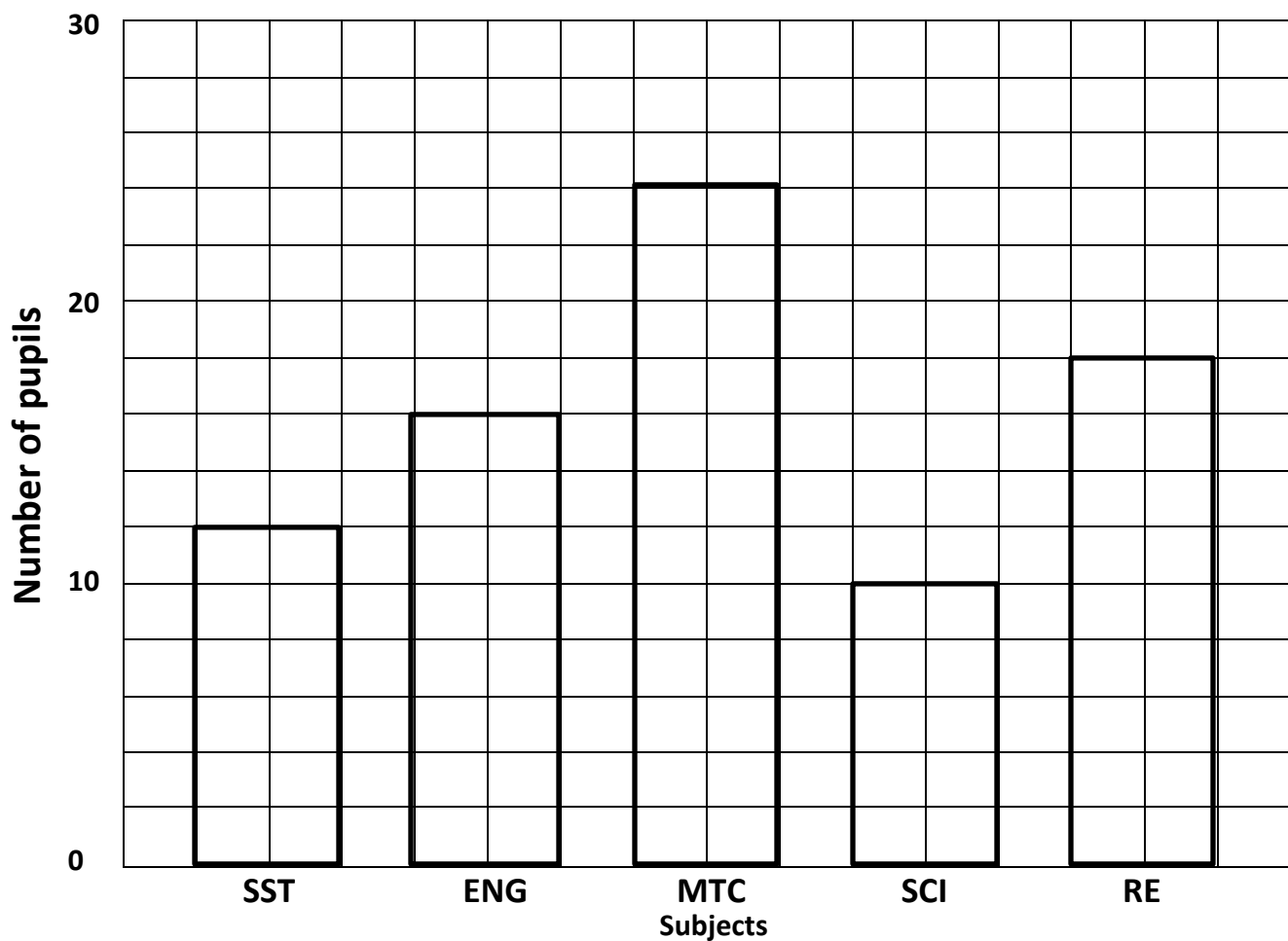
22. A box contains 5 blue and 6 red pens. A pen is picked at random from the box. Find the probability that the pen picked is blue.

23. Find the mean of the following numbers: **4, 7, 8, 5.**

24. The bar graph below shows the number of pupils in a class and their best liked subjects. Study the graph and use it to answer the questions that follow.

(a) Which subject is liked by fewer pupils?

(b) How many pupils liked Mathematics best?

(c) Calculate the total number of pupils in the class.

(d) Find the percentage of pupils who liked English best.

25. The graph below represents the number of absentees that were recorded in Crane Junior School in a certain week. Study it carefully and answer the questions that follow.
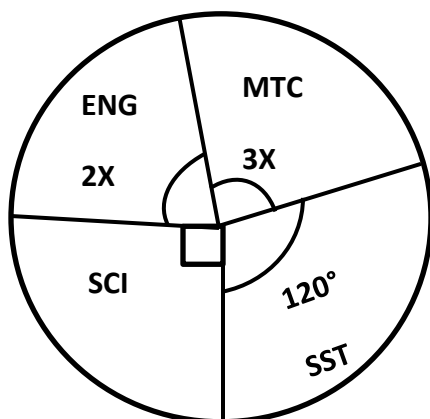

Days of the week
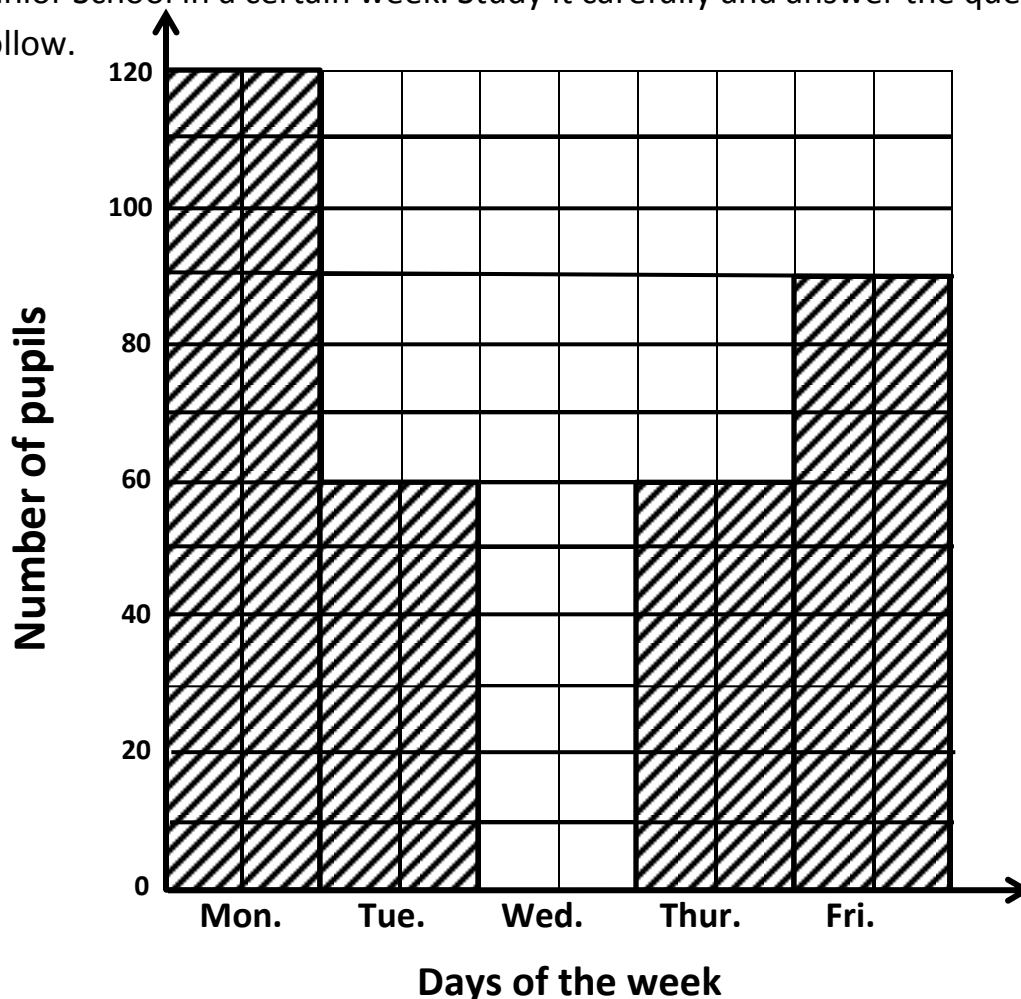
(a) Which day was most likely to be a public holiday?

(b) How many more pupils attended on Tuesday than on Friday?

(c) Find the total number of absentees in the whole week.

26. The pie chart below shows the quantity of books on various subjects in a school library.

(a) There are 45 more science books than English books in the library.
Find the number of all books in the school library.

(b) Express the number of SST books as a Percentage of all books in the school library.

27. In a class, there are 25 boys and 20 girls. If 5 boys are absent, find the probability of picking a boy who is present.

28. (a) The mean weight of 5 boxes is 45kg. If one of the boxes is removed, the mean weight of the remaining boxes becomes 36kg.
    a) Find the weight of the box which was removed.

(b) The average weight of five sons is 45kg. If the heaviest son whose weight is 81kg

leaves the group, find the average weight of the remaining sons.

29. The table below shows the performance of pupils in a mathematics contest. Use it to answer the questions that follow.

Marks scored	80	70	65	90
Number of pupils	H	2	4	1

(a) If the mean mark was **73**, find the value of **h**
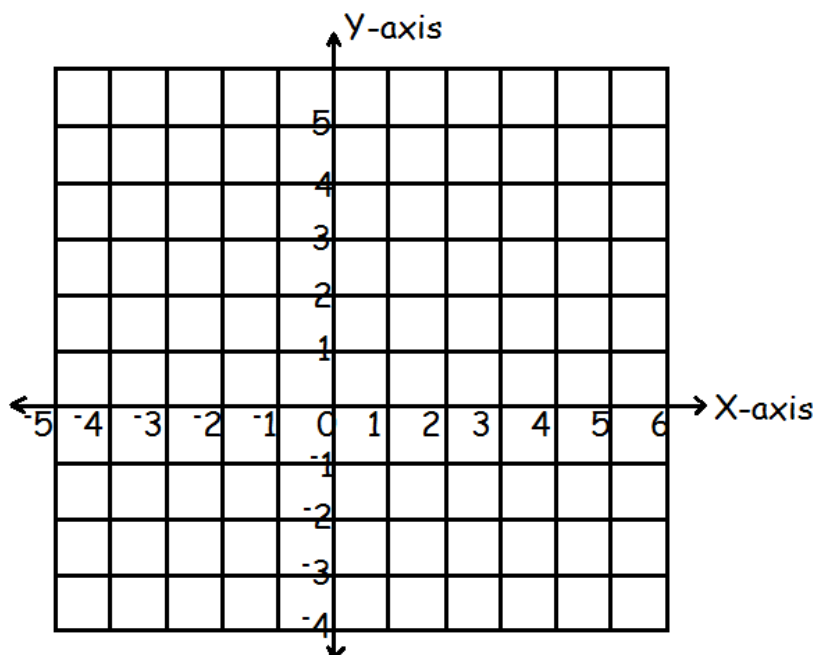
(b) How many pupils scored above the median mark?

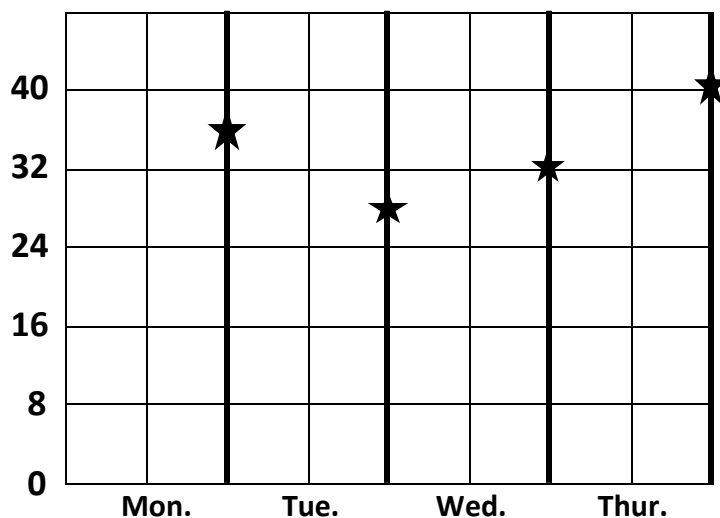30. Given that the equation of the line **k** is   **y = x +2.**
    (a) Complete the table below.

x	0	1	2	ˉ2	……	ˉ4
y	2	……..	4	……	ˉ1	…..

(b) Plot the above coordinates on the graph below to show the line.
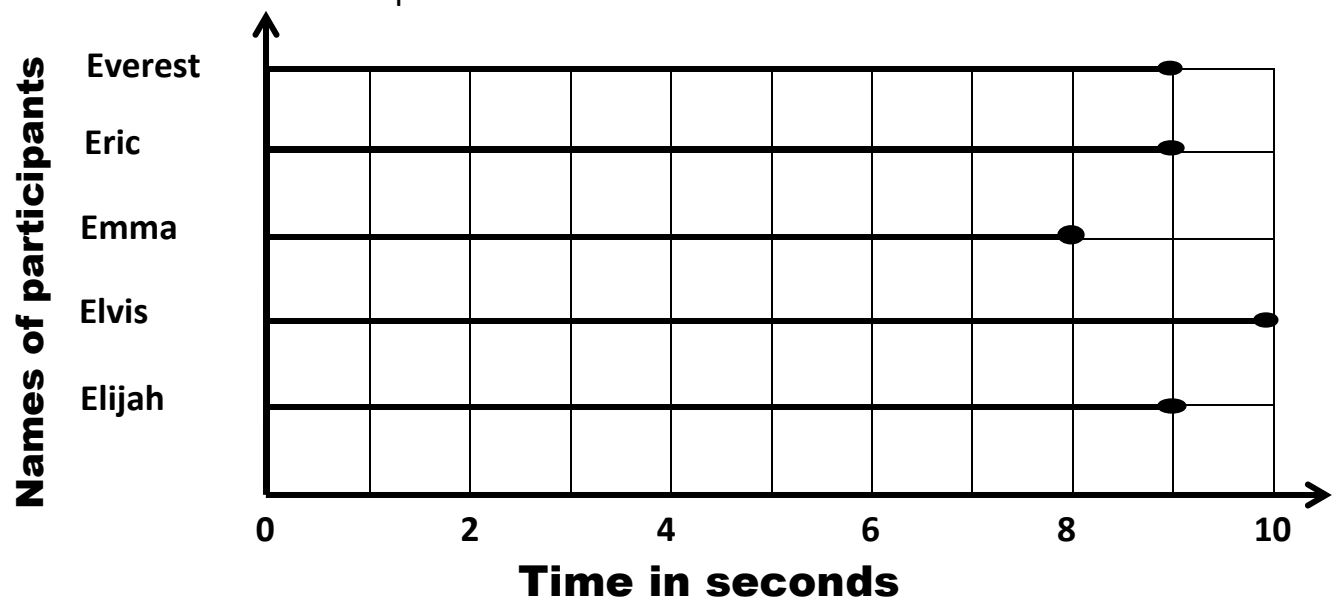

31. The graph below shows the temperature of a patient recorded from Monday to Thursday at Mulago hospital in **°C**.

Find the range of the temperature recorded from Monday to Wednesday.

32. The line graph below shows pupils who participated in **100** metre race.
Use it to answer the questions that follow.

(a) Who **won** the race?

(b) Calculate the average time taken by the five participants.

33. The table below shows the marks obtained by P.7 candidates at Shalom Junior School.
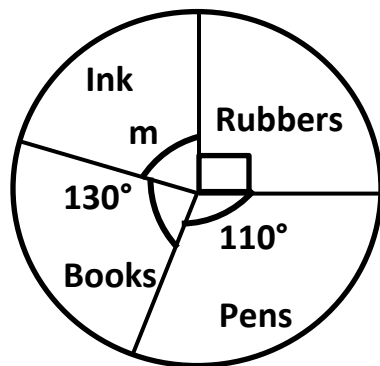
Marks	80	70	96	46
Number of candidates	2	3	4	1

(a) Find the median score.

(b) What was the modal score?

(c) How many candidates got below the average mark?

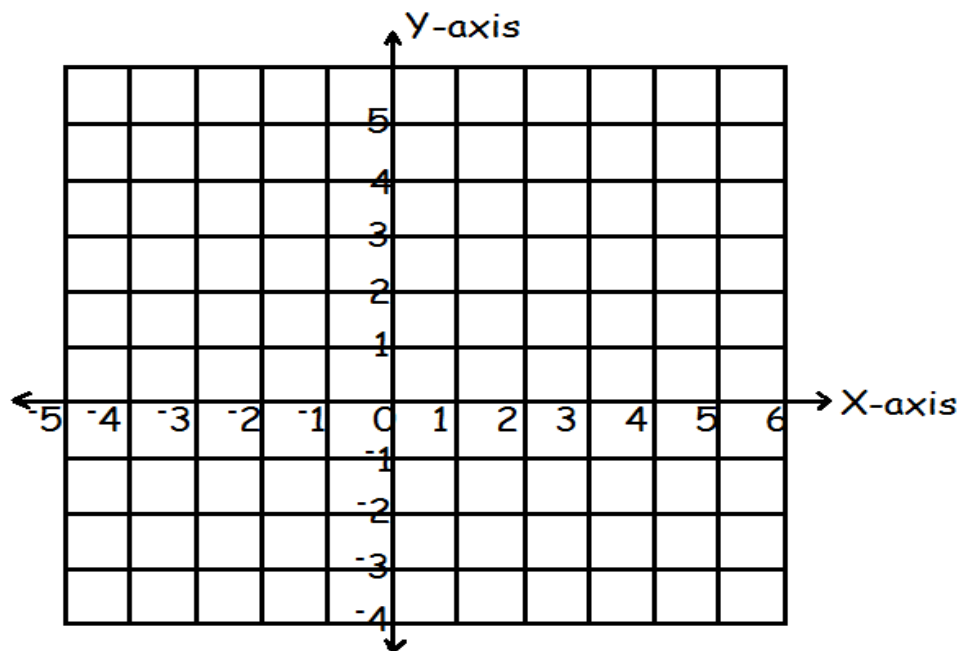34. The pie chart below shows how a parent bought various items from a shop.

(a) Find the value of **m**

(b) If he spends sh.72,000 more on books than on pens, how much money did he

spend on all the items?

35.On the grid below:
   (I)   Plot the points **A(0,5), B(⁻2,0), C(0,⁻3) and D(2,0)**
   (II)   Join **A** to **B**, **B** to **C** and **C** to **D**


   (III)   Name the polygon formed.

36. (a) The mean of **5, 9, 8, 7, x+1** and **x+4** is **15**.Find the value of **x**

    (b)The average height of two boys is 132cm.When the third boy joins them the

    average height becomes 120cm.Find the height of the third boy.

37. a) In a basket , 4 rotten eggs are mixed with 5 good eggs. If an egg is picked at random from the basket, what is the probability of picking a rotten egg?

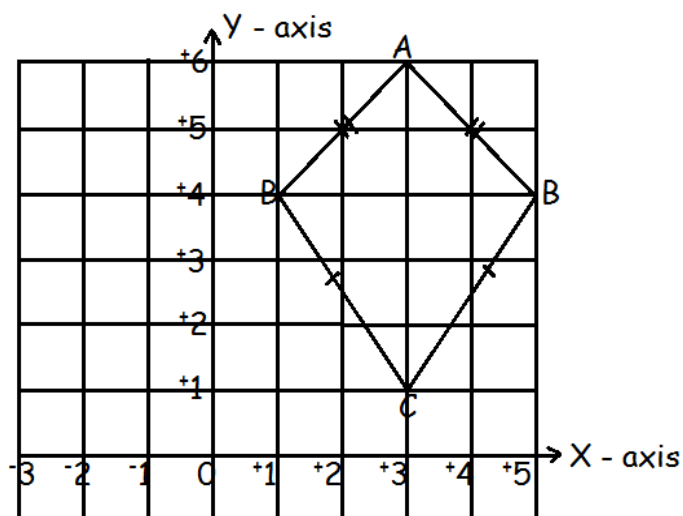(b)The mean age of 4 girls is 15, the total age of three girls is 50 years. Find the age of the fourth girl.

38. Study the grid below and use it to answer the questions that follow.
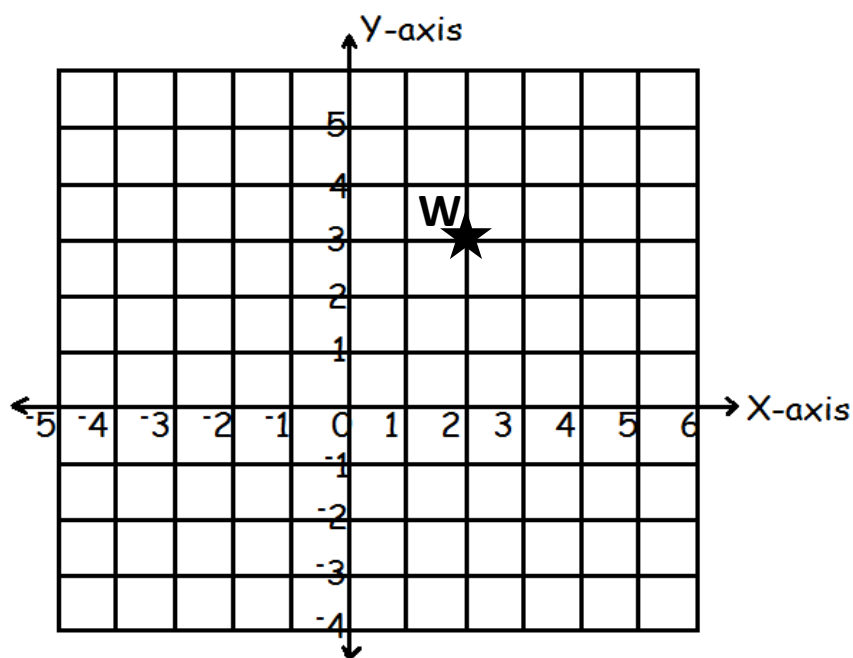
(a) Plot point **B(0, ̄4)**

(b) Write the coordinates represented by point **W**

39. On the grid , **ABCD** is a kite. Use it to answer the following questions.

(a) Find the area of the kite on the grid above (Take 1 square=1cm)

(b) If A is joined to C and B is joined to D, what are the coordinates of the meeting point of the two diagonals on the grid above?

40. The table below shows the performance of candidates in a certain school.

Division	I	II	III
Degree	150°	120°	K

(a) Find the value of **k**

(b) Express the sector for the candidates who passed in **division I** as a percentage.

(c) Draw an accurate pie chart to show the above information using 4cm as radius.