

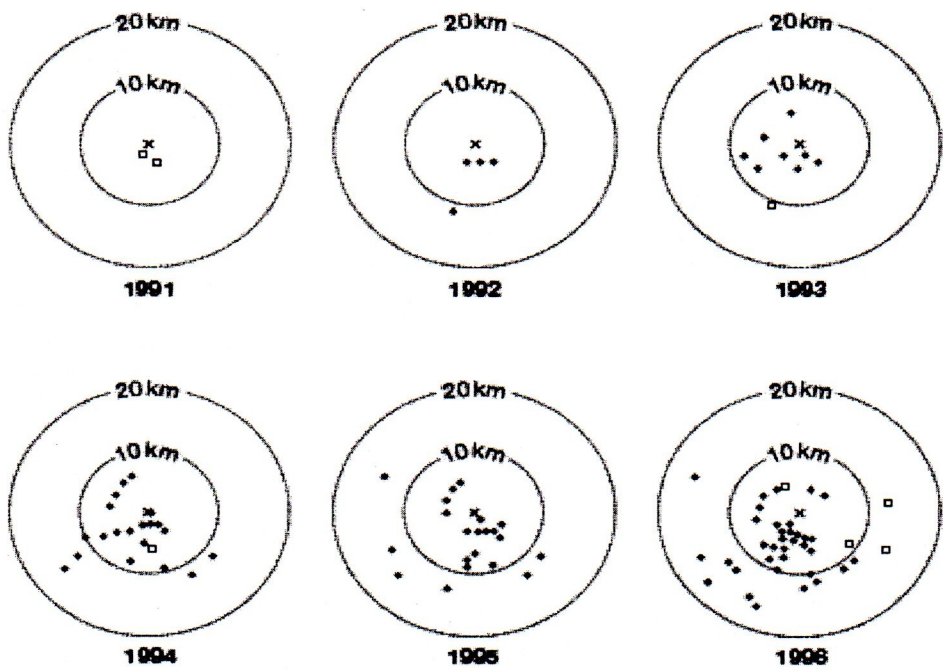
Statistical Diagram

Exercise

Red Kites are large birds that were very rare in England. Scientists set free some Red Kites in 1989 and hoped they would build nests. The diagrams show how many nests the birds built from 1991 to 1996.

Key:

- × shows where the birds were set free.
- represents a nest without eggs.
- represents a nest with eggs.

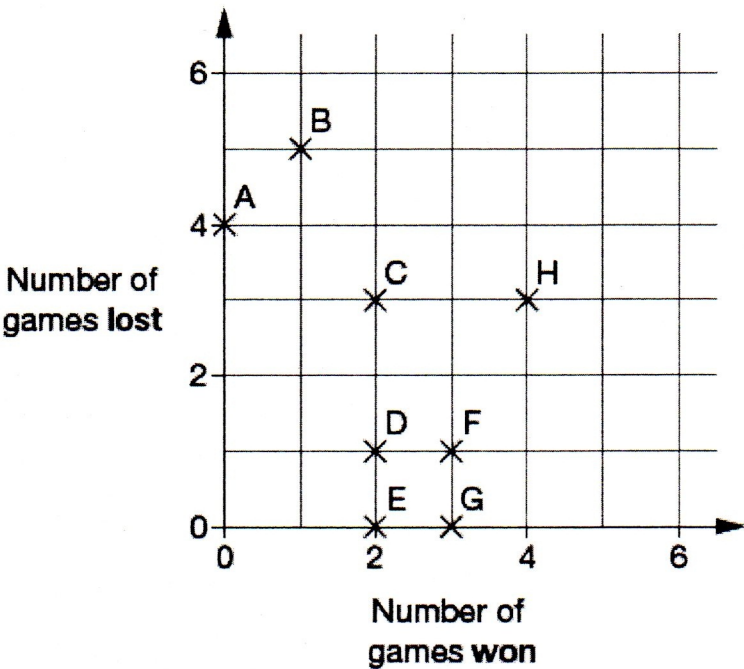


Use the diagrams to answer these questions.

- (a) Which was the first year there were nests **with eggs**? _____
- (b) In **1993**, how many nests were there **without eggs**? _____
- (c) In **1995**, how many nests were **more than 10km** from where the birds were set free? _____
- (d) Explain what happened to the **number** of nests, over the years.

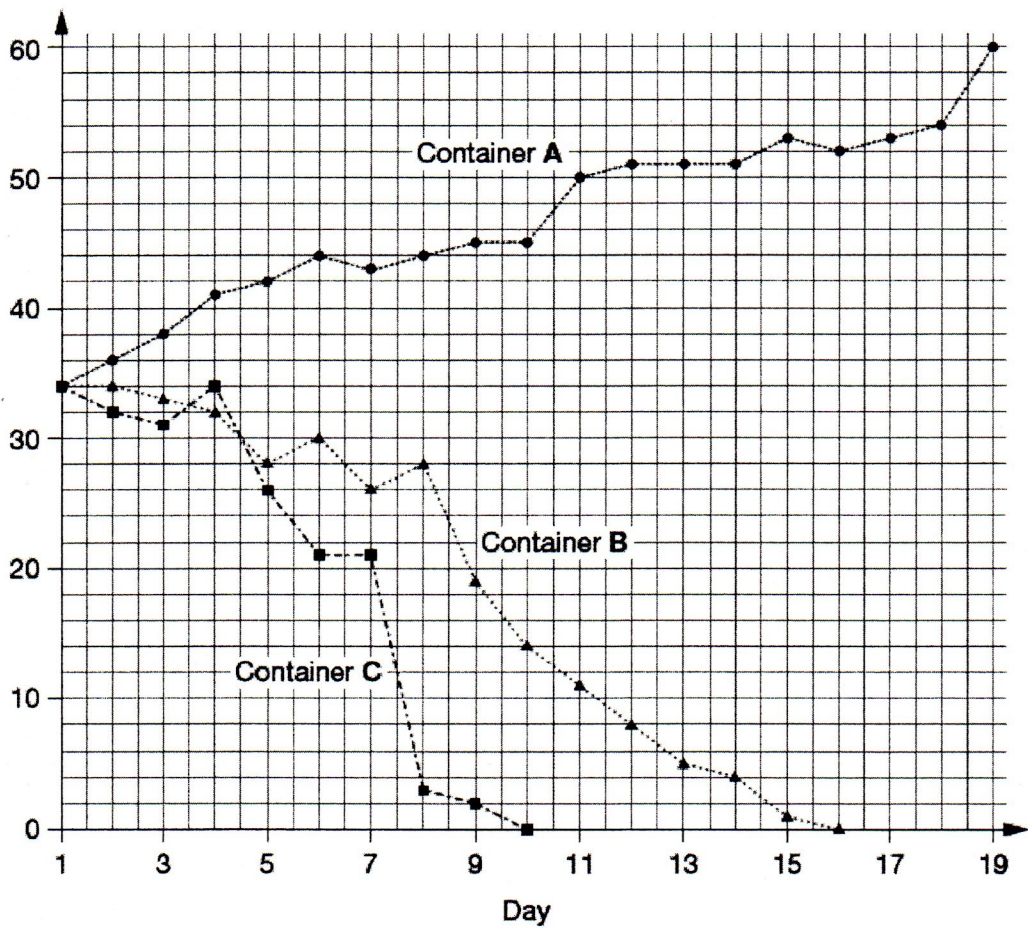
- (e) Now explain what happened to the **distances** of the nests from where the birds were set free, over the years.

2) 8 people took part in a chess competition.
The diagram shows how many games each person won,
and how many games each person lost.



- (a) Who won the most games? Write the person's letter. _____
- (b) How many games were won by person A? _____
- (c) Each person played **7 games**.
Each game was won, lost or drawn.
How many of person D's games were **drawn**? _____
- (d) How many games were won by person D? _____
- (e) How many of person A's games were drawn? _____
- (f) If each person played 10 games, how many of person B's games were drawn? _____
- (g) Person G won 3 games and lost 4 games, show the information on the graph _____

3) Duckweed is a plant that grows in water.
 Pupils added **different amounts of salt** to three identical containers of water.
 In each container they put some duckweed plants.
 Then they recorded the number of leaves on the plants every day.



Key:

A: No salt

● — ● — ●

B: Small amount of salt

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C: Large amount of salt

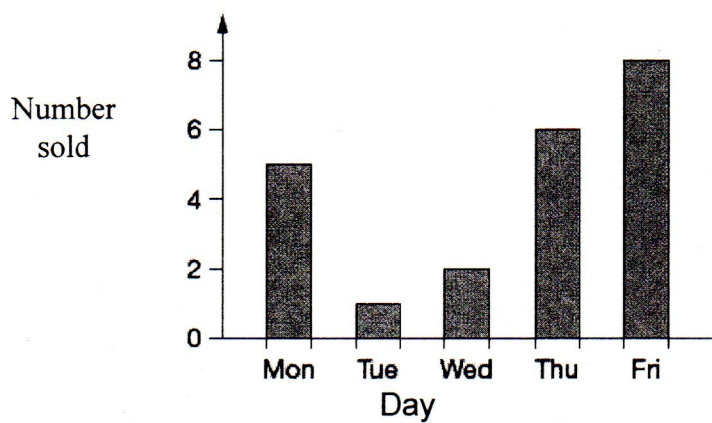
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- (a) How many leaves were in each container on day 1? _____
- (b) In container **A**, how many **more** leaves were there on day **19** than on day **1**? _____
- (c) Duckweed plants with no leaves are dead.
On which day did the pupils record that the plants in container **B** were dead? _____
- (d) How did the amount of salt affect the **change** in the number of leaves? _____

4) The table shows the items sold in a school shop in one week.

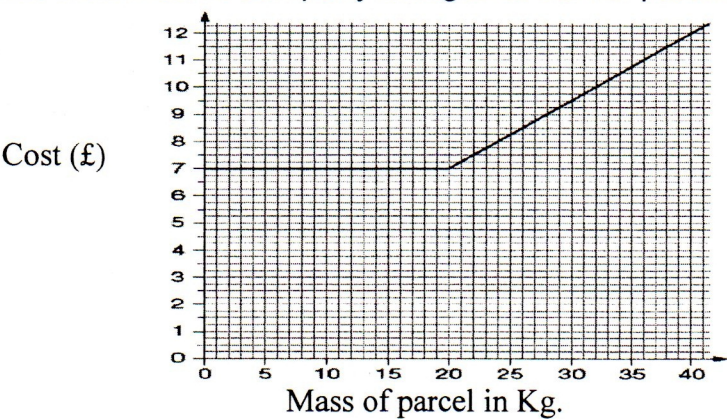
	Mon	Tue	Wed	Thu	Fri
Pencil	25	18	13	21	16
Pen	17	20	19	9	12
Ruler	5	1	2	6	8
Protractor	5	1	4	3	2
Compasses	5	1	2	1	0

- (a) How many **pens** were sold in the shop on **Wednesday**? _____
- (b) On what day did the shop sell **2 protractors**? _____
- (c) The bar chart shows information for **one** of the items. _____



- Which item is this? _____
- (d) How many pencils were sold on Monday? _____
- (e) One item was not sold on Friday, what is the item. _____

5) The graph shows how much a company charges to deliver parcels



- (a) Use the graph to complete the sentence below.
The company charges exactly £_____ for parcels up to _____ kg.
- (b) Altogether, how much would the company charge to deliver two parcels?
one of **15kg** and one of **37kg**? _____
- (c) How much the company charge to deliver a parcel which is 25 kg. _____
- (d) Peter pays £10 for 1 parcel, Find the weight of his parcel. _____
- (e) Find the cost to deliver the parcel which is 40 kg. _____