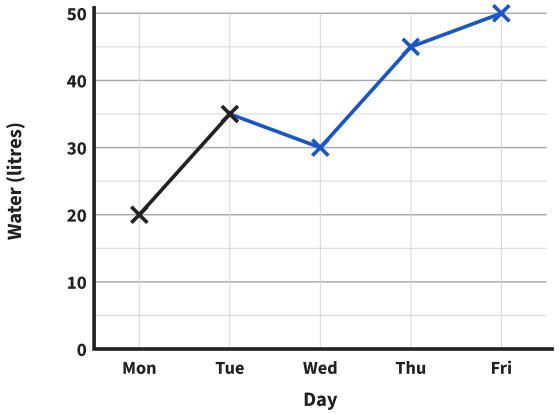
Line graphs for time series

ANSWERS

1

The table shows the water in a rain barrel each day. Draw a line graph for the table.

Day	Water (litres)
Mon	20
Tue	35
Wed	30
Thu	45
Fri	50

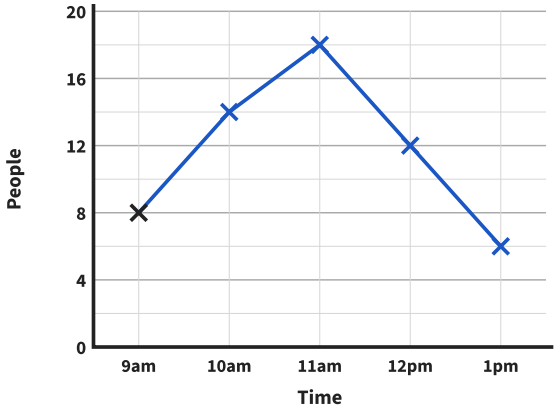


Most water Fri

2

The table shows how many people were in a queue each hour. Draw a line graph for the table.

Time	People
9am	8
10am	14
11am	18
12pm	12
1pm	6

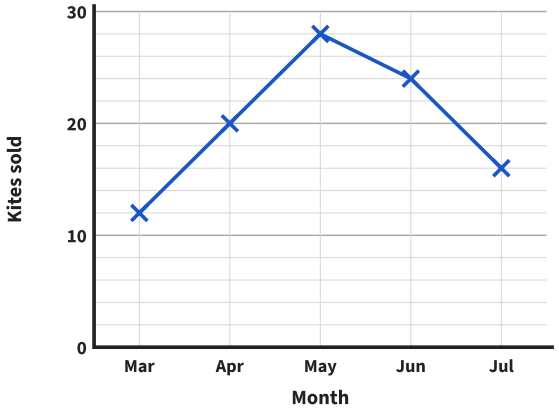


Longest queue 11am

3

A shop records how many kites it sells each month. Draw a line graph, then describe the trend.

Month	Kites sold
Mar	12
Apr	20
May	28
Jun	24
Jul	16

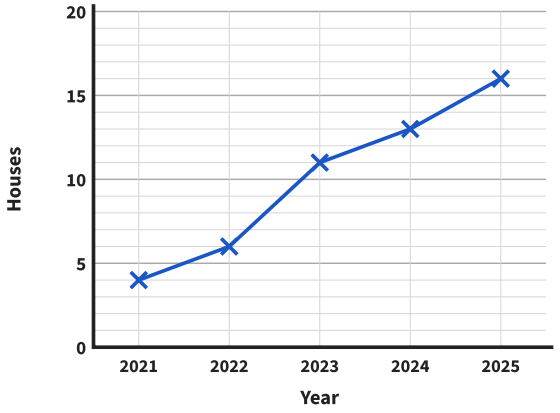


Trend going up, then down

4

The table shows how many houses on a street had solar panels. Draw a line graph. Between which two years was the biggest rise?

Year	Houses
2021	4
2022	6
2023	11
2024	13
2025	16



Biggest rise 2022 to 2023

Line graphs for time series

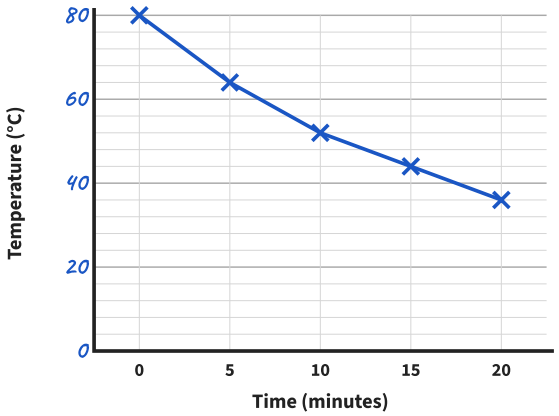
ANSWERS

5

A cup of tea cools down. Choose a scale and number the side, then draw a line graph and describe the trend.

Time (minutes)	Temperature (°C)
0	80
5	64
10	52
15	44
20	36

Trend going down



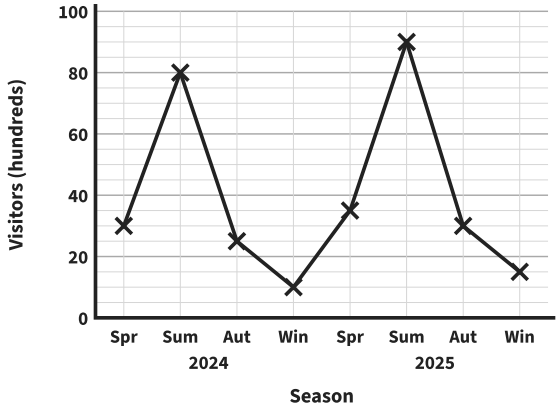
6

The graph shows visitors to an outdoor pool each season. How many visited in summer 2025? Describe the pattern.

Summer 2025 9000 visitors

high every summer, low every winter

it repeats every year: seasonal

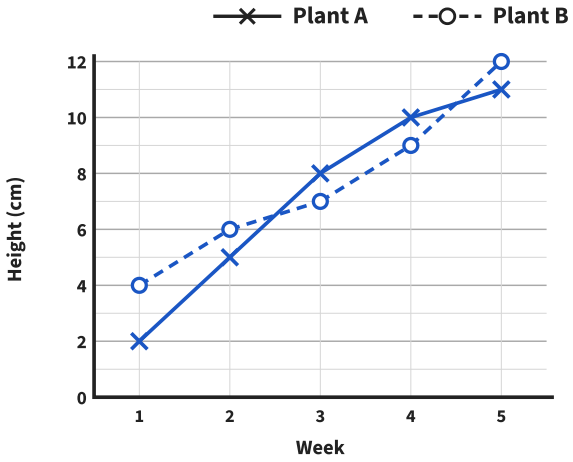


7

Two plants are measured each week. Draw both lines on the graph, using the key. In which week was plant A first taller?

Week	Plant A (cm)	Plant B (cm)
1	2	4
2	5	6
3	8	7
4	10	9
5	11	12

Week 3



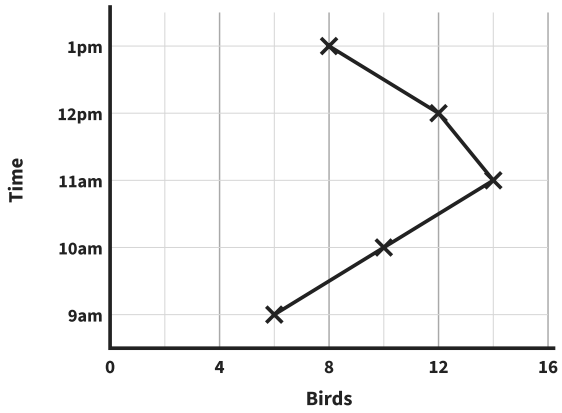
8

What has Theo done wrong?

Theo drew a line graph of the number of birds on a feeder each hour.

He put time up the side

Time always goes across



Line graphs for time series *further practice*

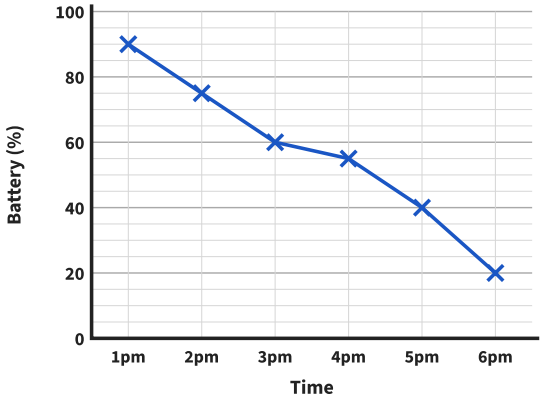
ANSWERS

9

The table shows the battery left on a phone. Draw a line graph. Between which two times did the battery fall the most?

Time	Battery (%)
1pm	90
2pm	75
3pm	60
4pm	55
5pm	40
6pm	20

Biggest fall 5pm to 6pm



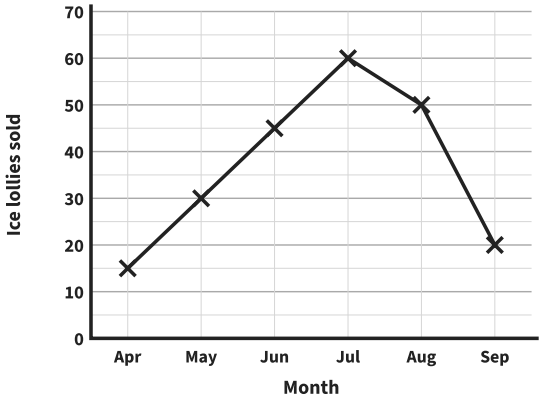
10

The graph shows how many ice lollies a kiosk sold each month. In which month did it sell 45? How many more did it sell in July than in April?

45 sold in Jun

60 − 15 = 45

More in July 45

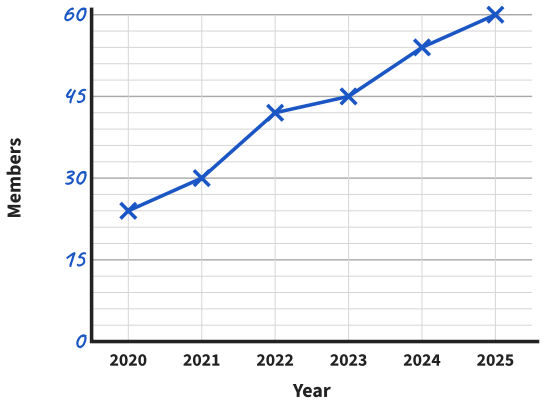


11

A running club counts its members each year. Choose a scale, draw a line graph and find the biggest rise.

Year	Members
2020	24
2021	30
2022	42
2023	45
2024	54
2025	60

Biggest rise 2021 to 2022, 12

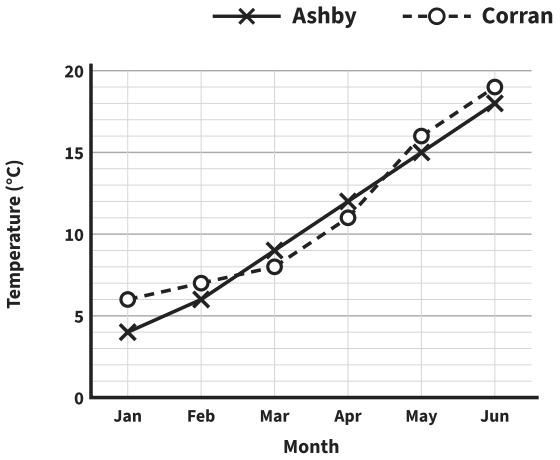


12

The graph shows the average temperature each month in two towns.
In which months was Ashby warmer than Corran?

Ashby's line is above Corran's in March and April

Months Mar and Apr



Line graphs for time series *further practice*

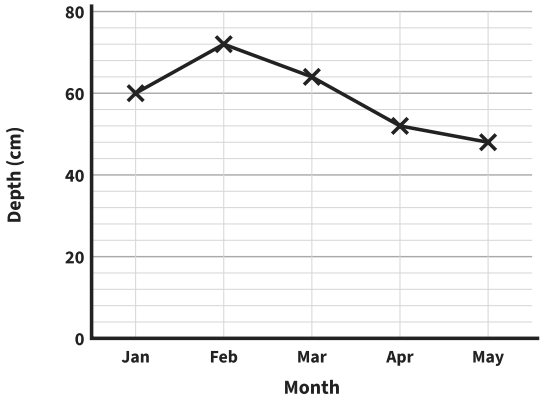
ANSWERS

13

Gemma measured the depth of water in a pond each month. Complete the table from the graph. Between which two months was the biggest fall?

Month	Depth (cm)
Jan	60
Feb	72
Mar	64
Apr	52
May	48

Biggest fall Mar to Apr



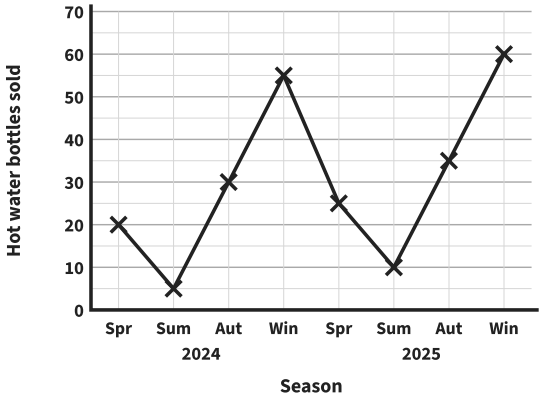
14

The graph shows how many hot water bottles a shop sold each season. Which season sells the most? Explain why the pattern is called seasonal.

Most sold in winter

low every summer, high every winter

the pattern repeats every year



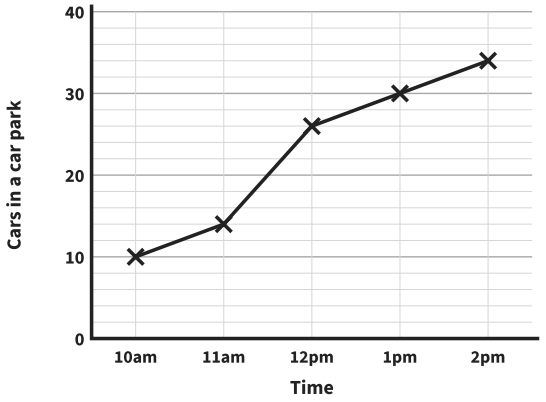
15

Ravi says the biggest rise was between 1pm and 2pm, because 2pm is the highest point. Explain why Ravi is wrong.

1pm to 2pm is only 4

11am to 12pm is 12, the steepest line

Biggest rise 11am to 12pm



16

Leo says his savings went up every week. Use the graph to explain why he is wrong.

From week 3 to week 4 the line goes down

£24 down to £22

Trend going up overall

