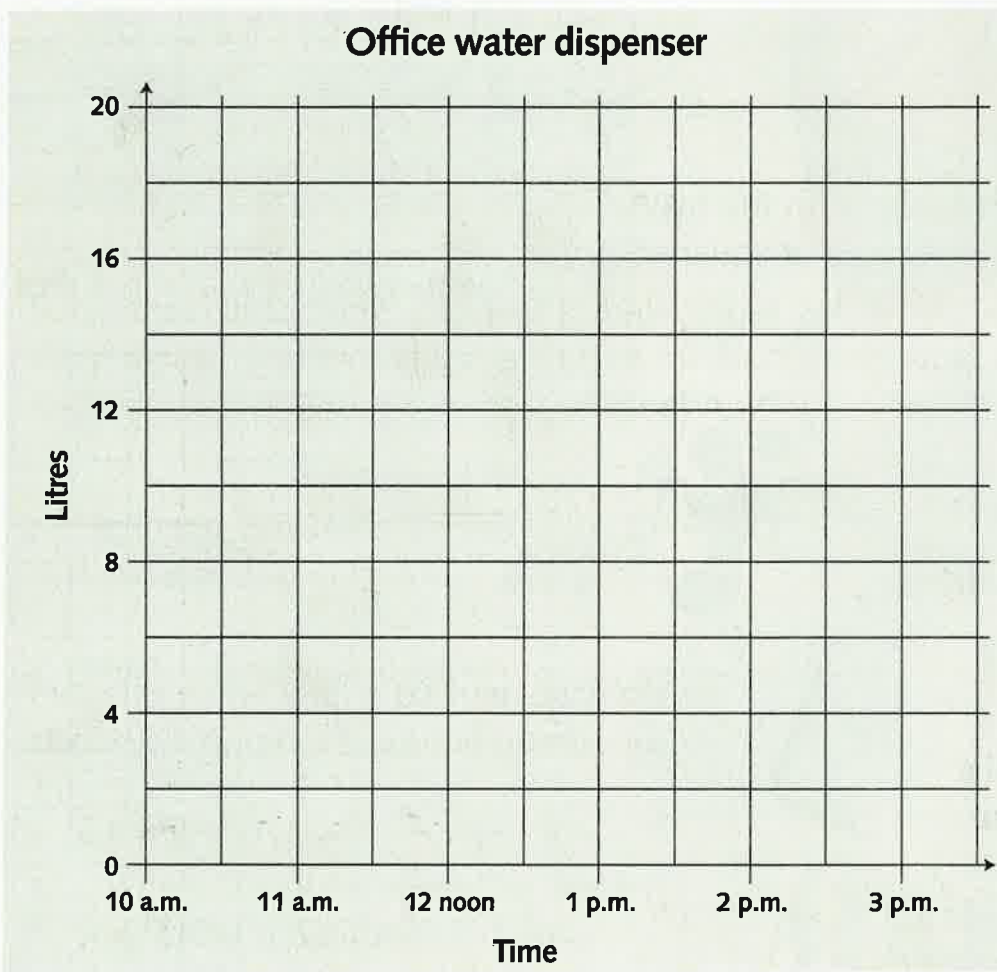# Harbour times

Interpret and present continuous data in simple time graphs

Challenge 1

There is a water dispenser in the Harbour Master's office. The table shows how many litres of water it held at hourly intervals.

1 Copy and complete the time graph using the data in the table.

Office water dispenser

Time	Litres
10 a.m.	20
11 a.m.	18
12 noon	15
1 p.m.	11
2 p.m.	6
3 p.m.	4

You will need:
- 1 cm squared paper
- ruler

2 How many litres of water did the dispenser hold:

   a at 12 noon?   **b** at 2 p.m.?

3 How many litres of water were used:

   a before 12 noon?   **b** after 12 noon?

**4** Estimate how many litres of water there were at 2:30 p.m.

The table shows the depth of water in metres in the harbour at the start of each hour.

Time	Depth (m)
6 p.m.	2
7 p.m.	6
8 p.m.	8
9 p.m.	10
10 p.m.	9
11 p.m.	7

You will need:
- 1 cm squared paper
- ruler

1 Copy and complete the time graph using the data in the table.

2 What was the depth of water at 7 p.m.?

3 How much deeper was the water at 9 p.m.:

  a than at 6 p.m.?

  b than at 11 p.m.?

4 Estimate the depth of water at:

  a 6:30 p.m.

  b 10:30 p.m.

Depth of water in harbour
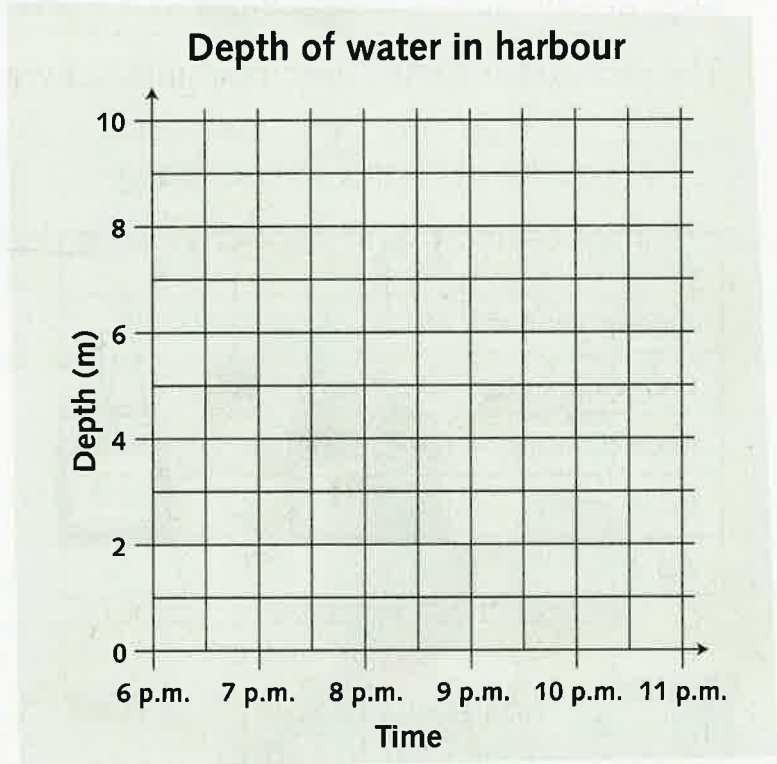
The table shows half-hourly readings of the diesel in the tank of a fishing boat.

1 After what time did the fishing boat slow down to take on board its catch of fish?

2 How many litres of diesel were used:

  a from 9:00 p.m. to 10:30 p.m.?

  b from 9 o'clock to midnight?

3 Use the Line Grapher tool or squared paper and a ruler to draw a time graph for the data in the table.

Time	Diesel (l)
9:00 p.m.	100
9:30 p.m.	94
10:00 p.m.	88
10:30 p.m.	82
11:00 p.m.	81
11:30 p.m.	76
12:00 midnight	69

You will need:
- 1 cm squared paper
- ruler
or
- Line Grapher tool

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