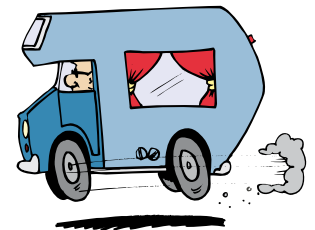


These are graphs about a holiday trip.

1 Read these stories. Which graph best tells each story?

- a We hadn't gone far when we realised we'd left the dog behind. We had to go back and get him. \_\_\_\_\_
- b We were slow sometimes, especially when we were stuck behind big trucks. But Dad worked out that our average speed was 80 km/h. \_\_\_\_\_
- c We wanted to get there quickly so Dad drove straight through at a steady speed. \_\_\_\_\_
- d Dad and Jo shared the driving. We had to go more slowly when Jo drove after lunch, as she is only a new driver. \_\_\_\_\_



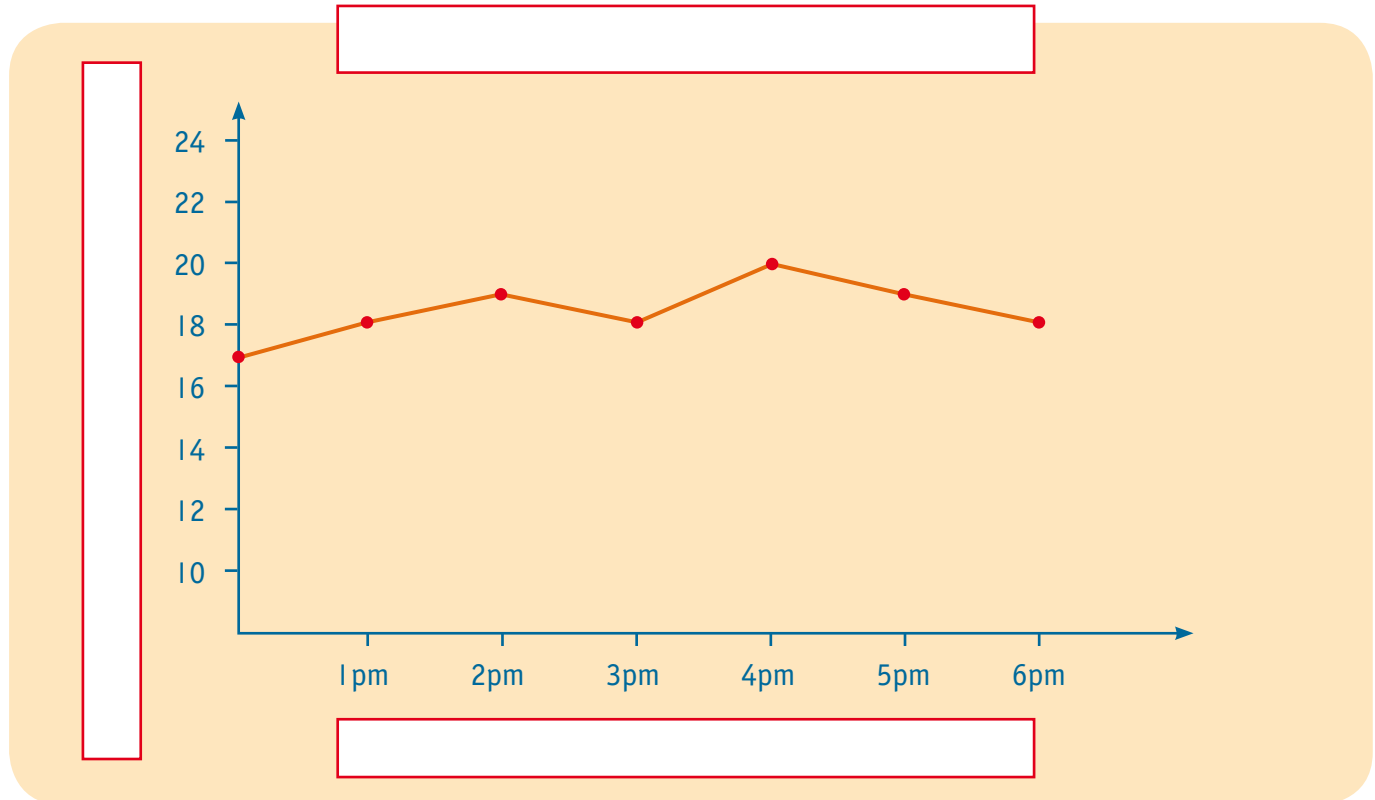
2 Write a title for each graph.



# Reading a line graph



The swimming pool manager graphed the temperature of the pool water on a cool afternoon. He wanted to find out if the heating system was working properly.



- Give the graph a title.
  - Write the labels for both axes.
- What is the difference between the highest temperature and the lowest temperature?

- When did these extremes occur?
- Between what hours was the greatest increase in temperature?
- What might have caused the change between 5pm and 6pm?
- What was the temperature at 1:30pm?

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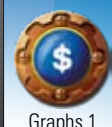
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7 Tick the questions that this graph can answer.

- What is the latest time the temperature was taken?
- How many people were in the pool at 12:00?
- At what time was the first temperature taken?  When did the manager go home?
- Was the temperature too hot?  Is the heating system controlling the heat evenly for the day?

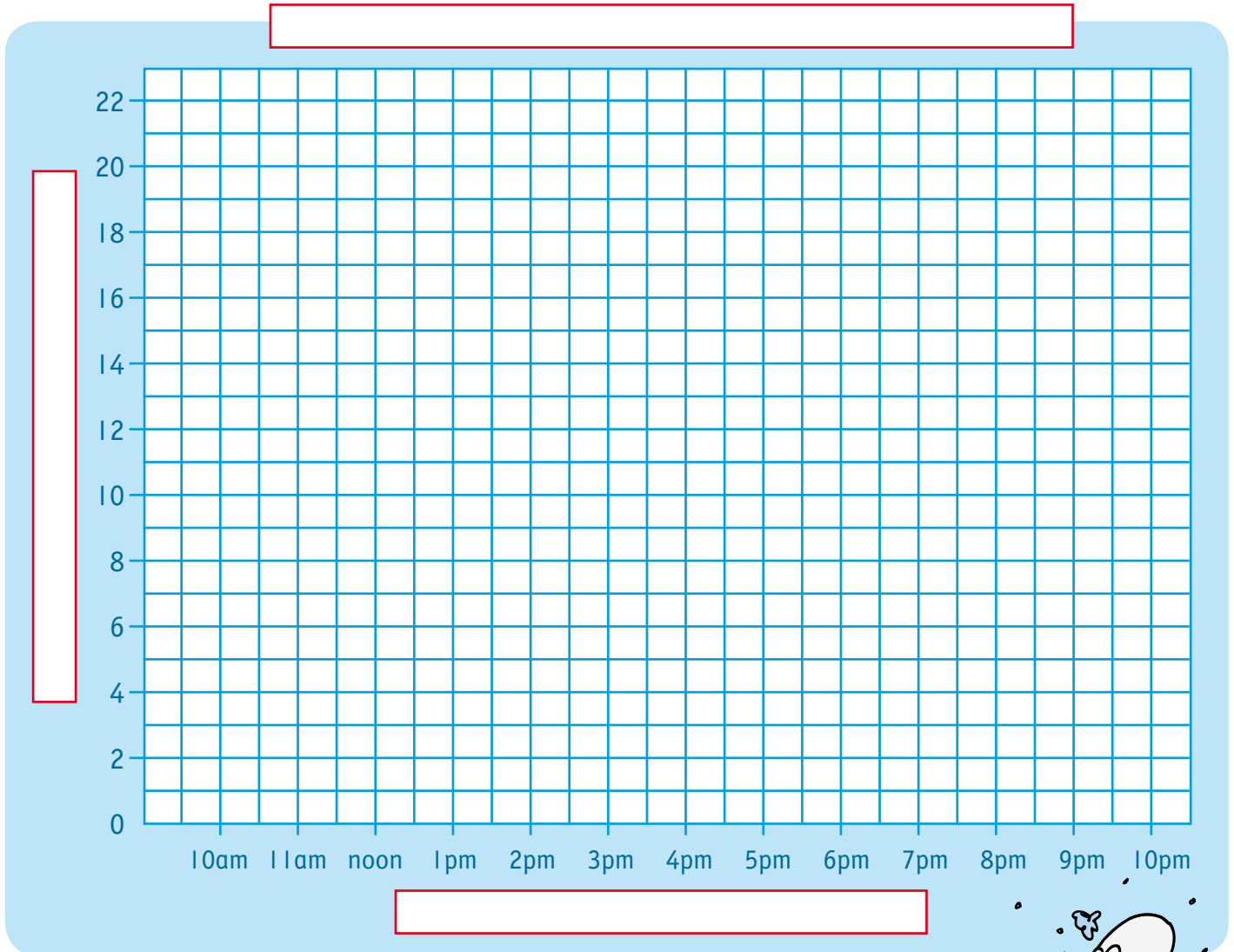
# Drawing a line graph



On Saturday, Dan recorded the temperature every hour from 10 am to 10 pm.

Time	10 am	11 am	noon	1 pm	2 pm	3 pm	4 pm	5 pm	6 pm	7 pm	8 pm	9 pm	10 pm
Temperature	17°C	18°C	20°C	21°C	19°C	18°C	16°C	16°C	14°C	13°C	13°C	12°C	10°C

1 Draw a line graph to show this information. Be accurate.



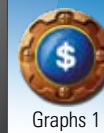
- 2 Write a title for the graph.
- 3 Label both axes.
- 4 What is the difference between the highest and lowest temperature? \_\_\_\_\_



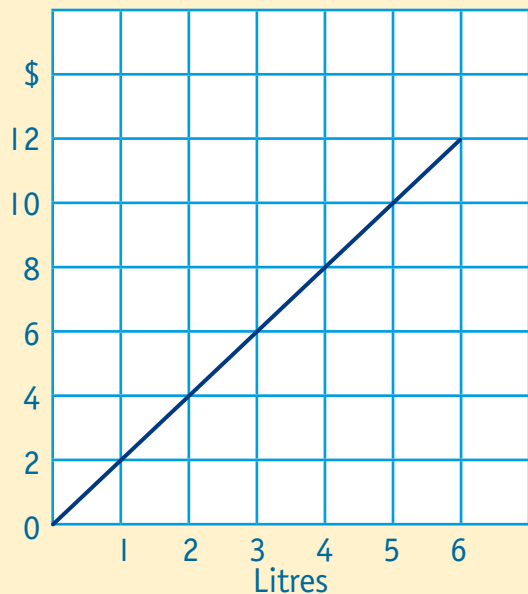
**Challenge!** Look in magazines or newspapers to find examples of line graphs. Paste them onto cardboard. Give each a title. Make a class display.



# Reading costs from line graphs



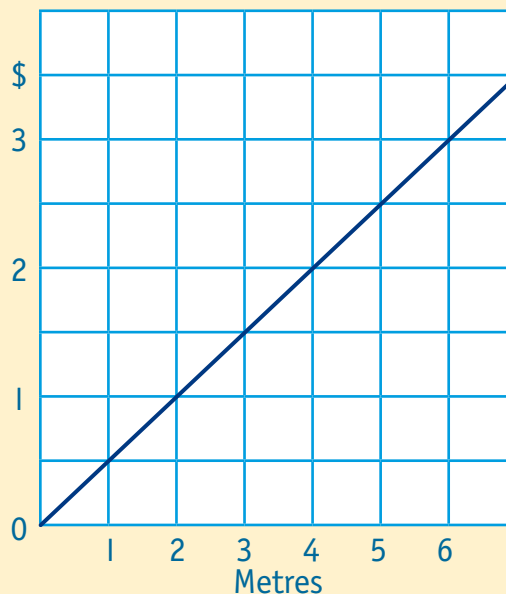
1 Use this line graph to find the cost of oil.



What is the cost of:

- a 3 litres \_\_\_\_\_
- b 2.5 litres? \_\_\_\_\_
- c 4.5 litres? \_\_\_\_\_
- d 0.5 litres? \_\_\_\_\_

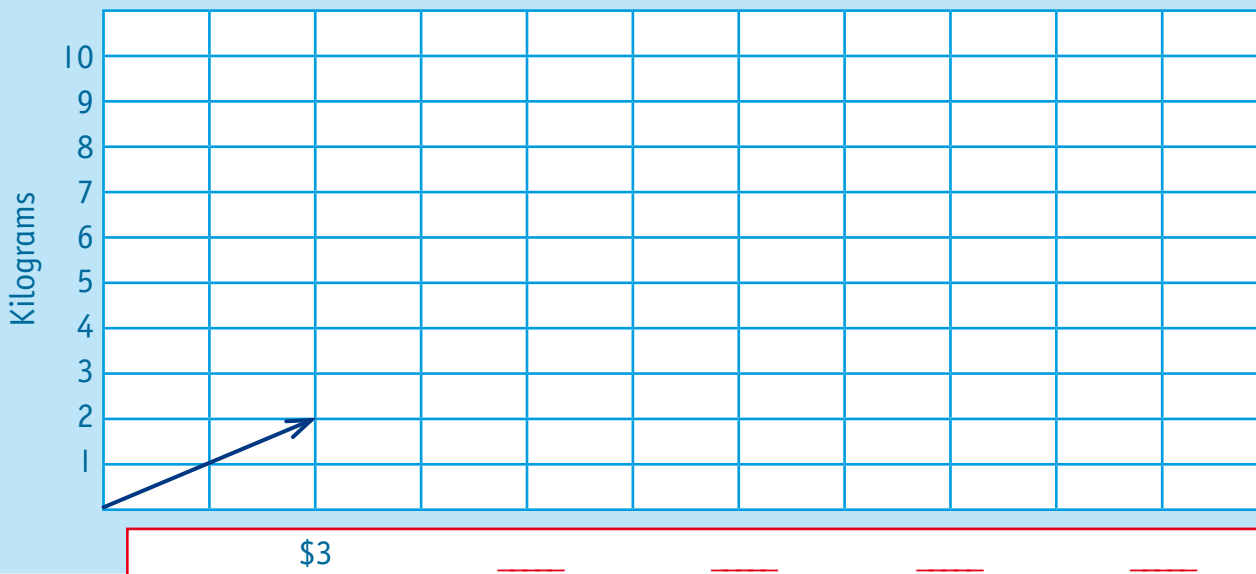
2 Use this line graph to find the cost of rope.



What is the cost of:

- a 1 metre? \_\_\_\_\_
- b 6 metres? \_\_\_\_\_
- c 3 metres? \_\_\_\_\_
- d 2.5 metres? \_\_\_\_\_

3 a Complete the graph which will show the cost of potatoes from 0 to 10 kg at \$1.50 per kg.



b What is the cost of 5.5 kg? \_\_\_\_\_

