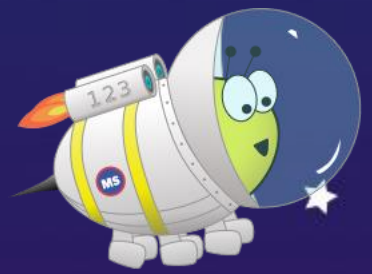
MathShed

Year 5/6

Home Learning

Lesson 1: To be able to read and interpret line graphs



Term: Autumn **Unit:** Block 3 – Statistics **Lesson:** 1

To be able to read and interpret line graphs

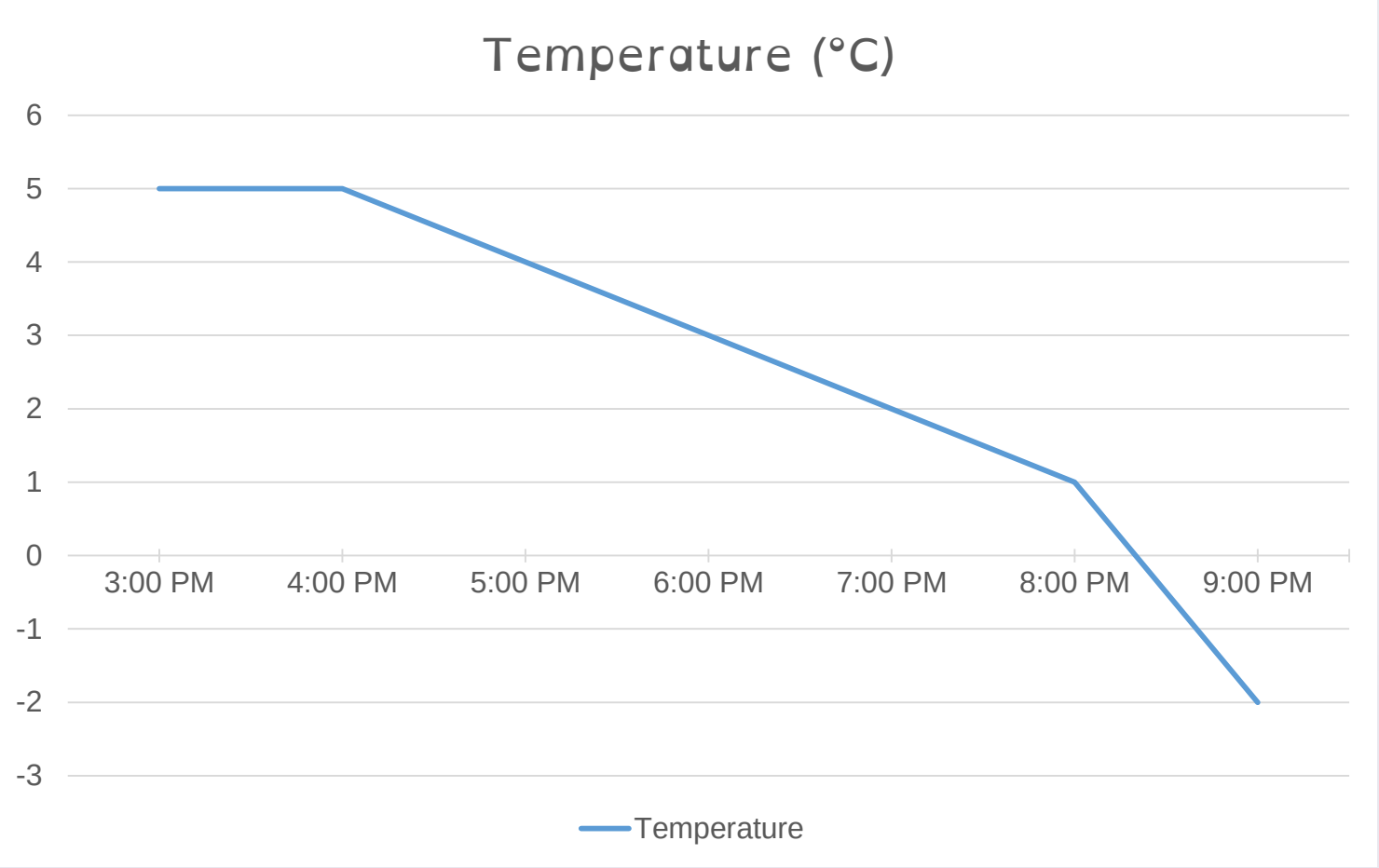
Success criteria:

- ✓ I can use my knowledge of number lines to read values on horizontal and vertical lines, drawing vertical and horizontal lines to give accurate readings
- ✓ I can explain my reasoning when using my knowledge of number lines to read values on horizontal and vertical lines, drawing vertical and horizontal lines to give accurate readings

To be able to read and interpret line graphs

Starter:

Which measurement is the odd one out?



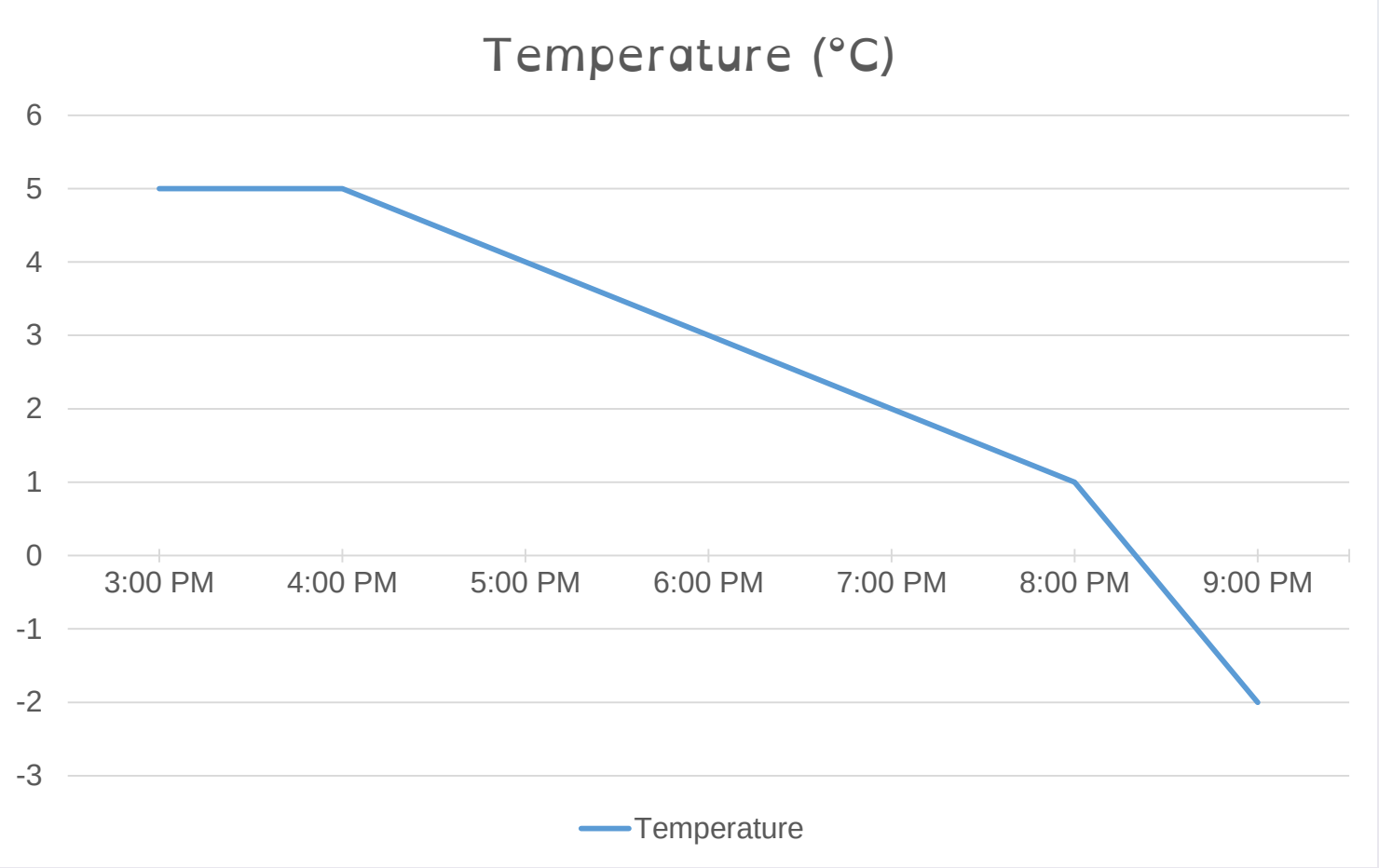
Explain your answer.

To be able to read and interpret line graphs

Starter:

Which measurement is the odd one out?

The 9:00 pm measurement is the odd one out as it is the only measurement that is a negative temperature value.



To be able to read and interpret line graphs

Talking Time:

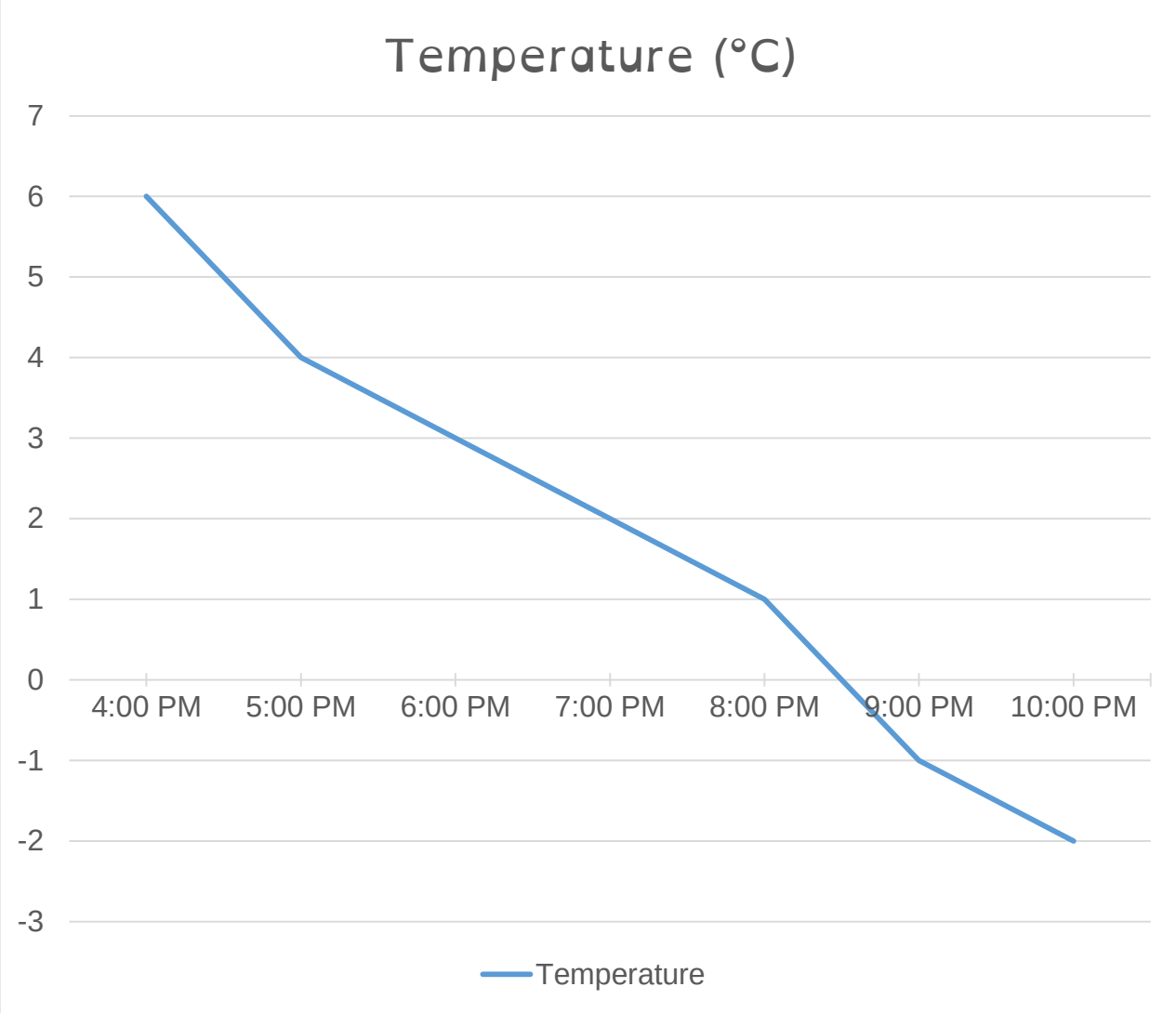
Answer the following questions.

a) What was the temperature at 4:00 pm?

b) What is the coldest recorded temperature?

c) At what time was the temperature -1°C?

d) At what time was the temperature 3°C?



To be able to read and interpret line graphs

Talking Time:

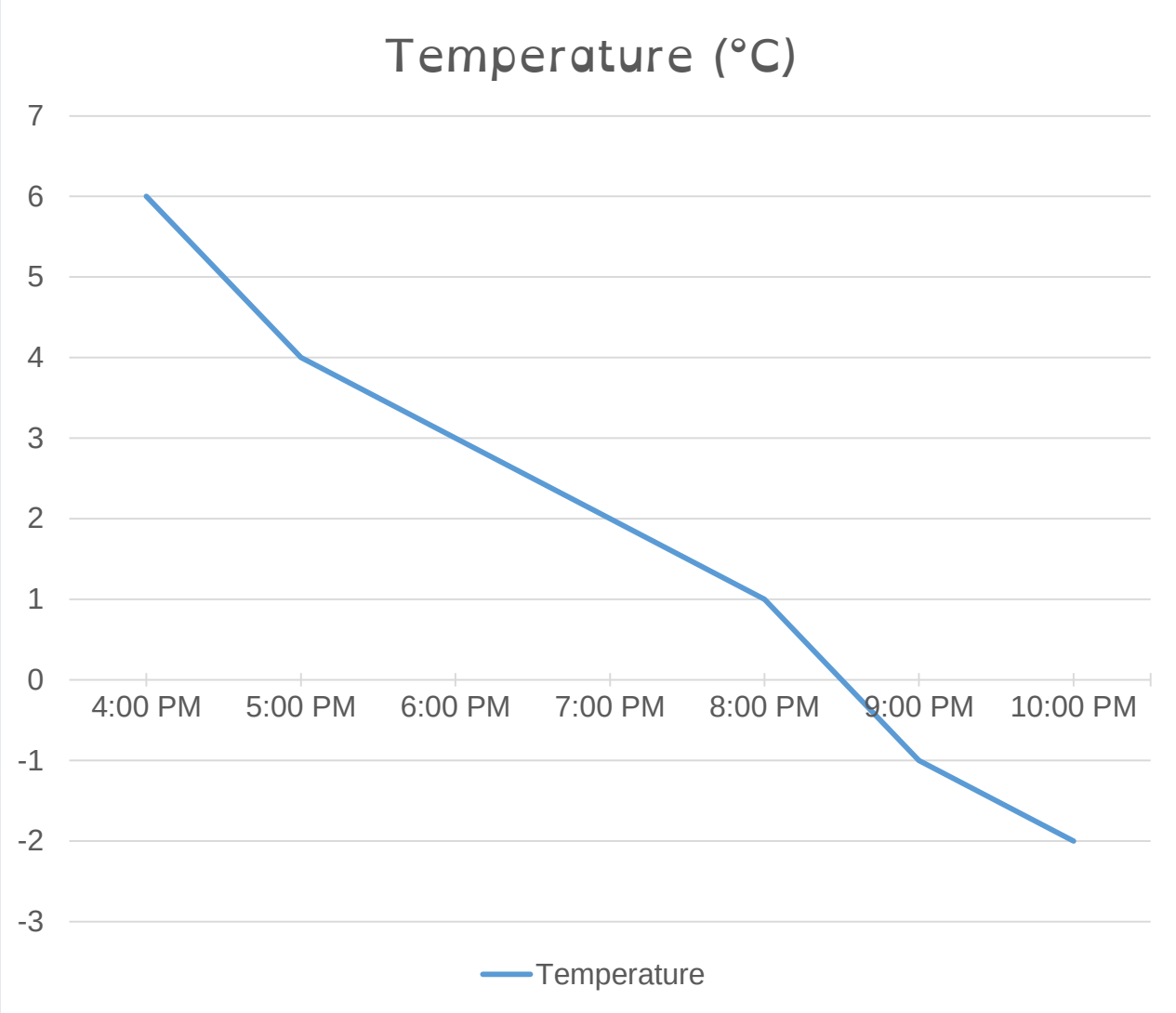
Answer the following questions.

a) What was the temperature at 4:00 pm? 6°C

b) What is the coldest recorded temperature?

c) At what time was the temperature -1°C?

d) At what time was the temperature 3°C?



To be able to read and interpret line graphs

Talking Time:

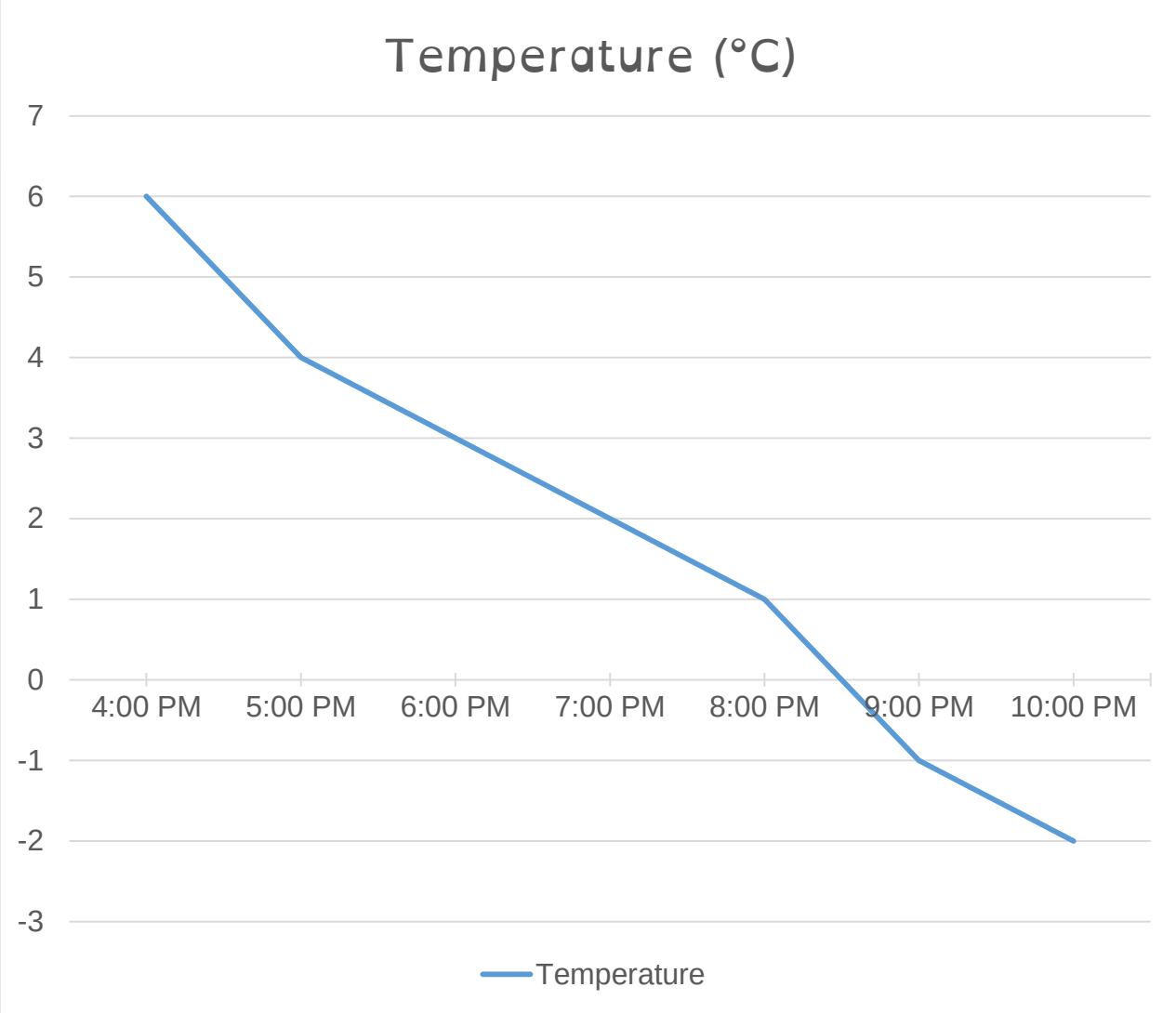
Answer the following questions.

a) What was the temperature at 4:00 pm? 6°C

b) What is the coldest recorded temperature? -2°C

c) At what time was the temperature -1°C?

d) At what time was the temperature 3°C?



To be able to read and interpret line graphs

Talking Time:

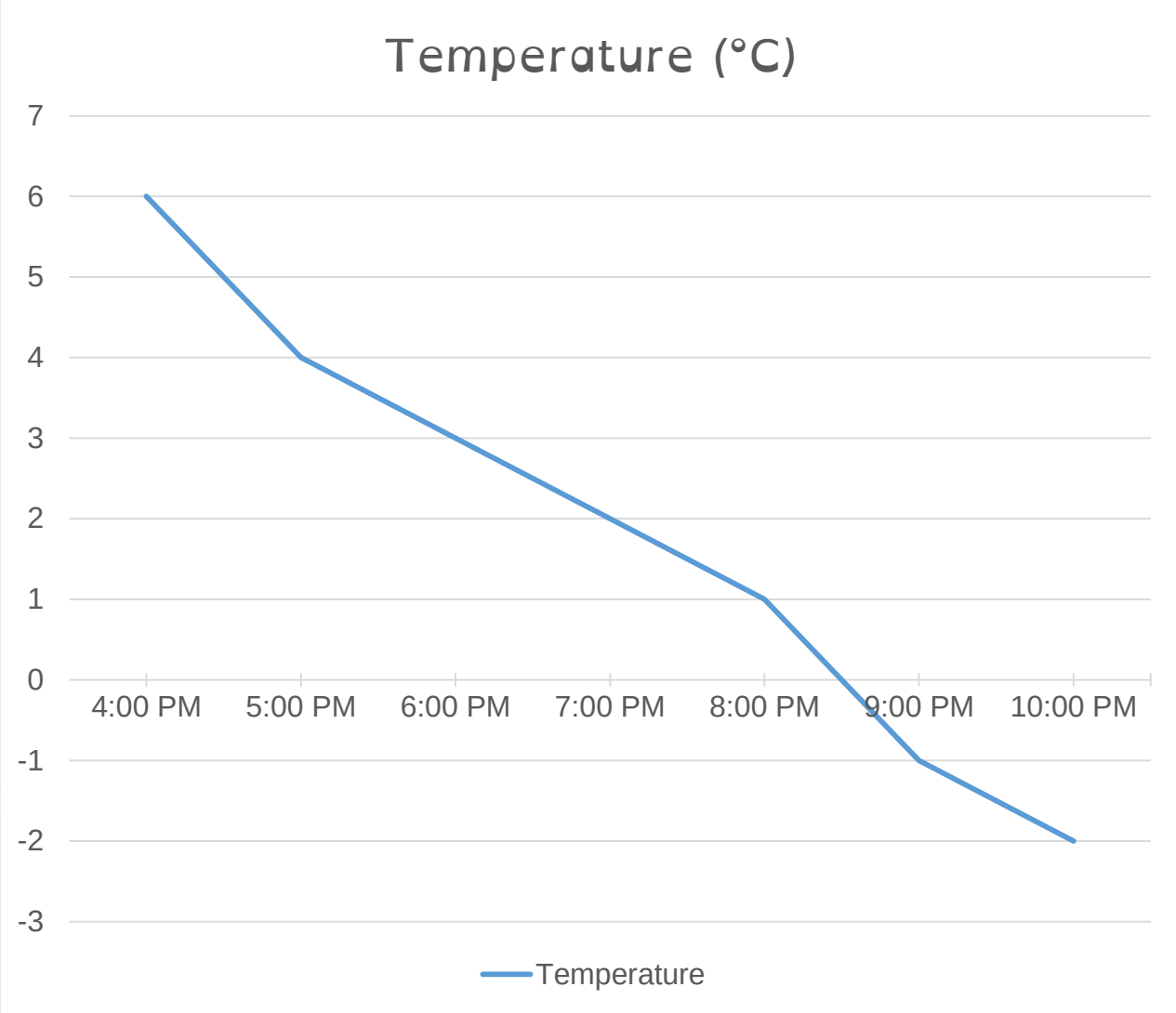
Answer the following questions.

a) What was the temperature at 4:00 pm? 6°C

b) What is the coldest recorded temperature? -2°C

c) At what time was the temperature -1°C? 9:00 pm

d) At what time was the temperature 3°C?



To be able to read and interpret line graphs

Talking Time:

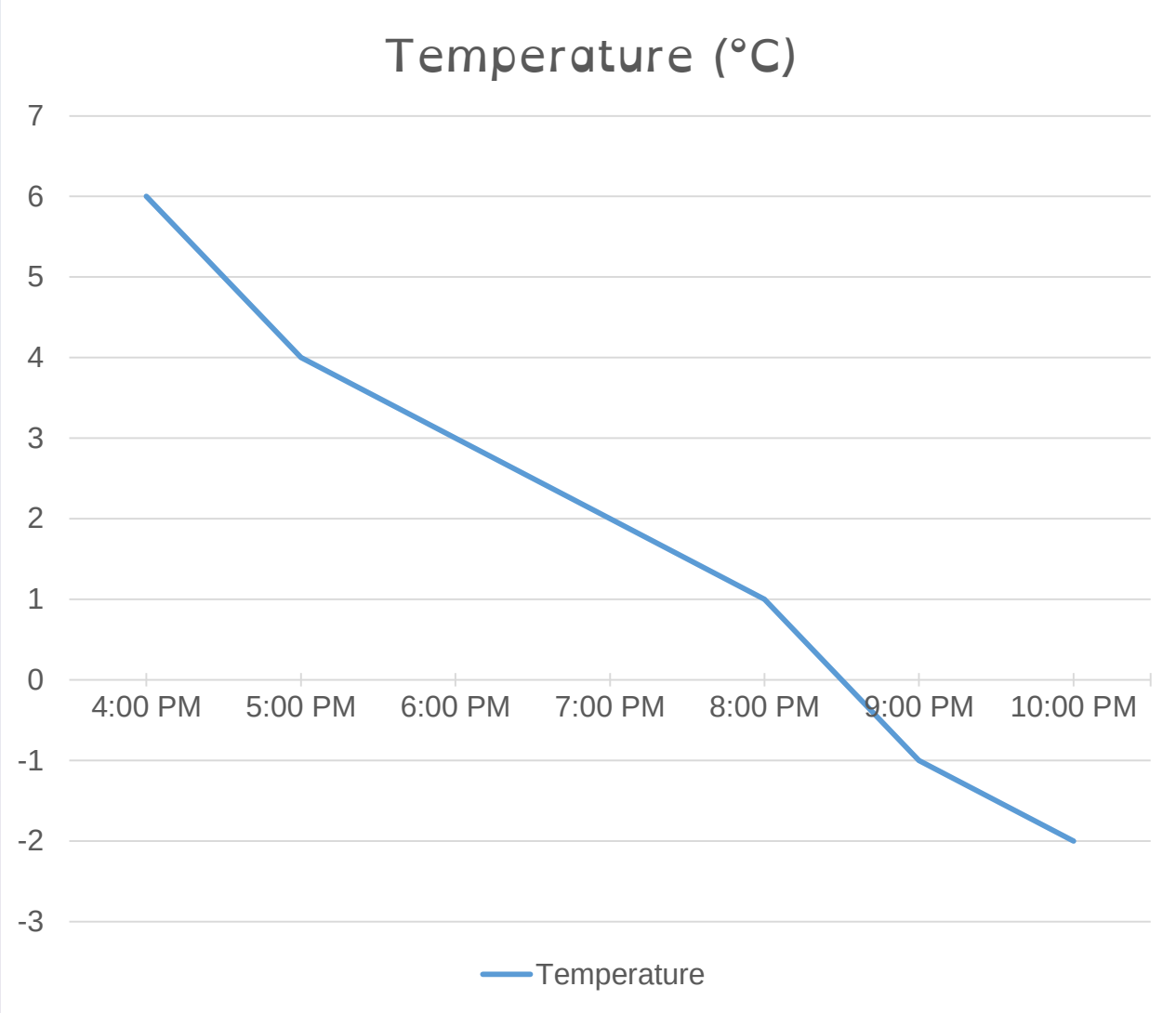
Answer the following questions.

a) What was the temperature at 4:00 pm? 6°C

b) What is the coldest recorded temperature? -2°C

c) At what time was the temperature -1°C? 9:00 pm

d) At what time was the temperature 3°C? 6:00 pm



To be able to read and interpret line graphs

Talking Time:

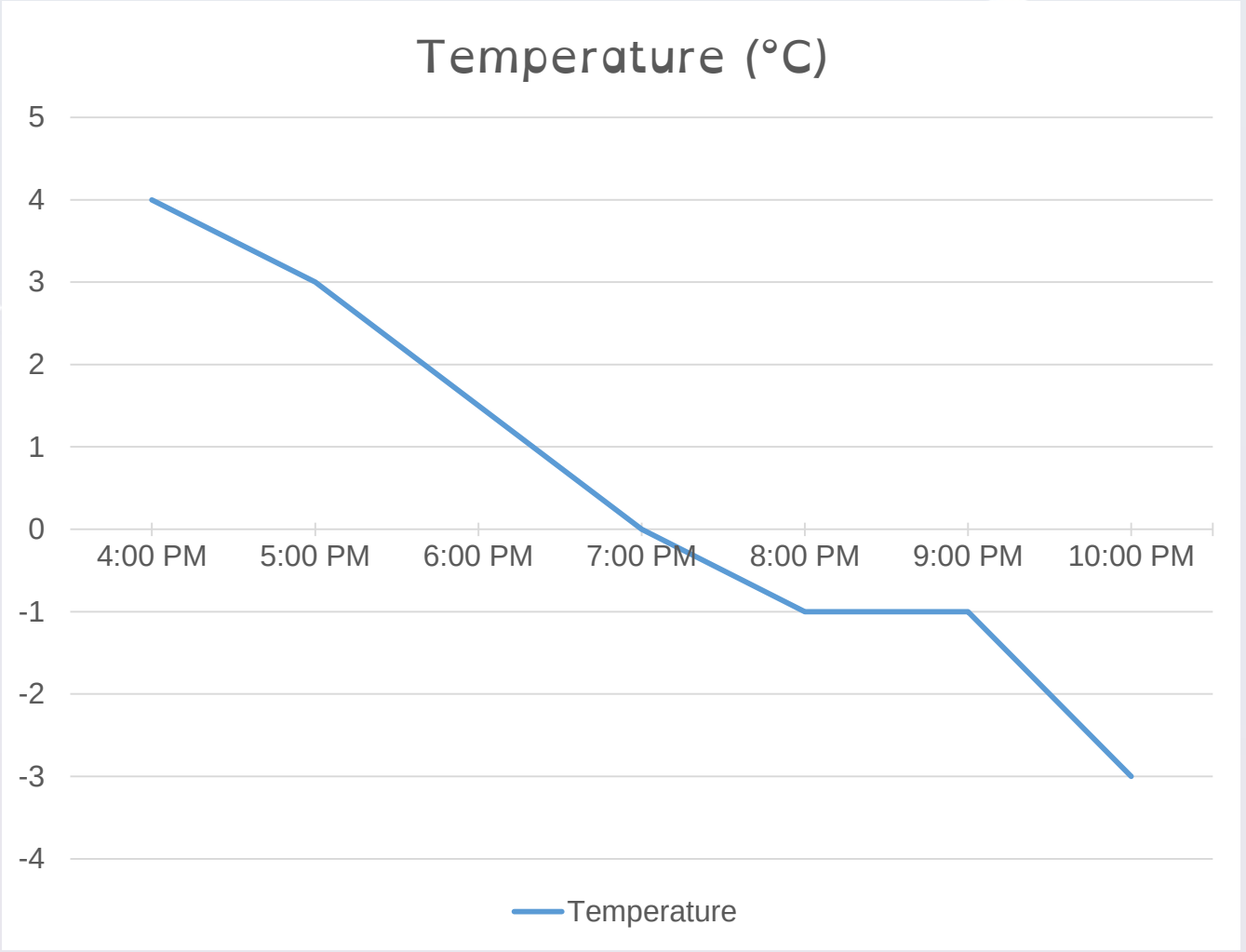
Answer the following questions.

a) What was the temperature at 5:00 pm?

b) What is the coldest recorded temperature?

c) At what time was the temperature -2°C?

d) Estimate the temperature at 6:00 pm?



To be able to read and interpret line graphs

Talking Time:

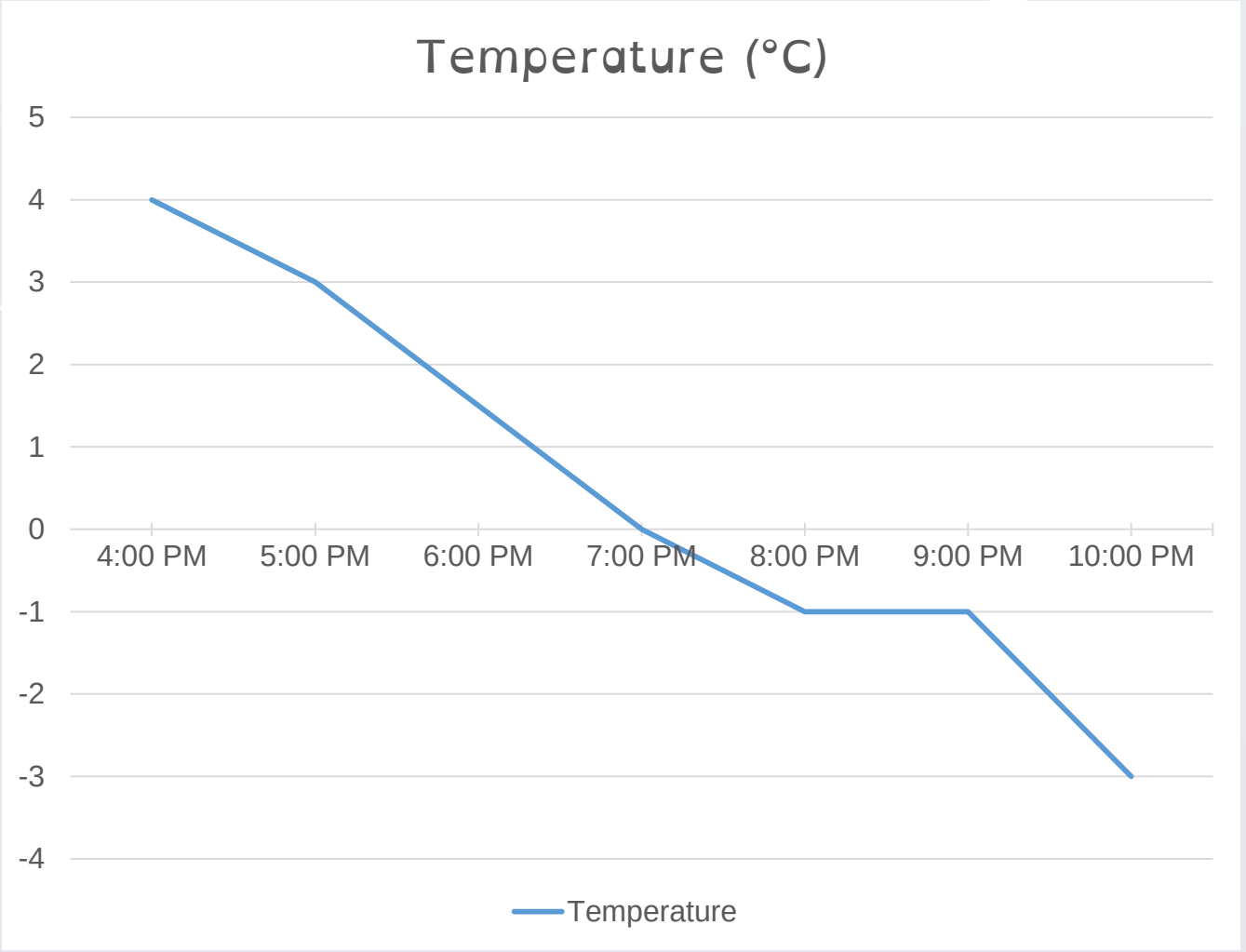
Answer the following questions.

a) What was the temperature at 5:00 pm? 3°C

b) What is the coldest recorded temperature?

c) At what time was the temperature -2°C?

d) Estimate the temperature at 6:00 pm?



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Talking Time:

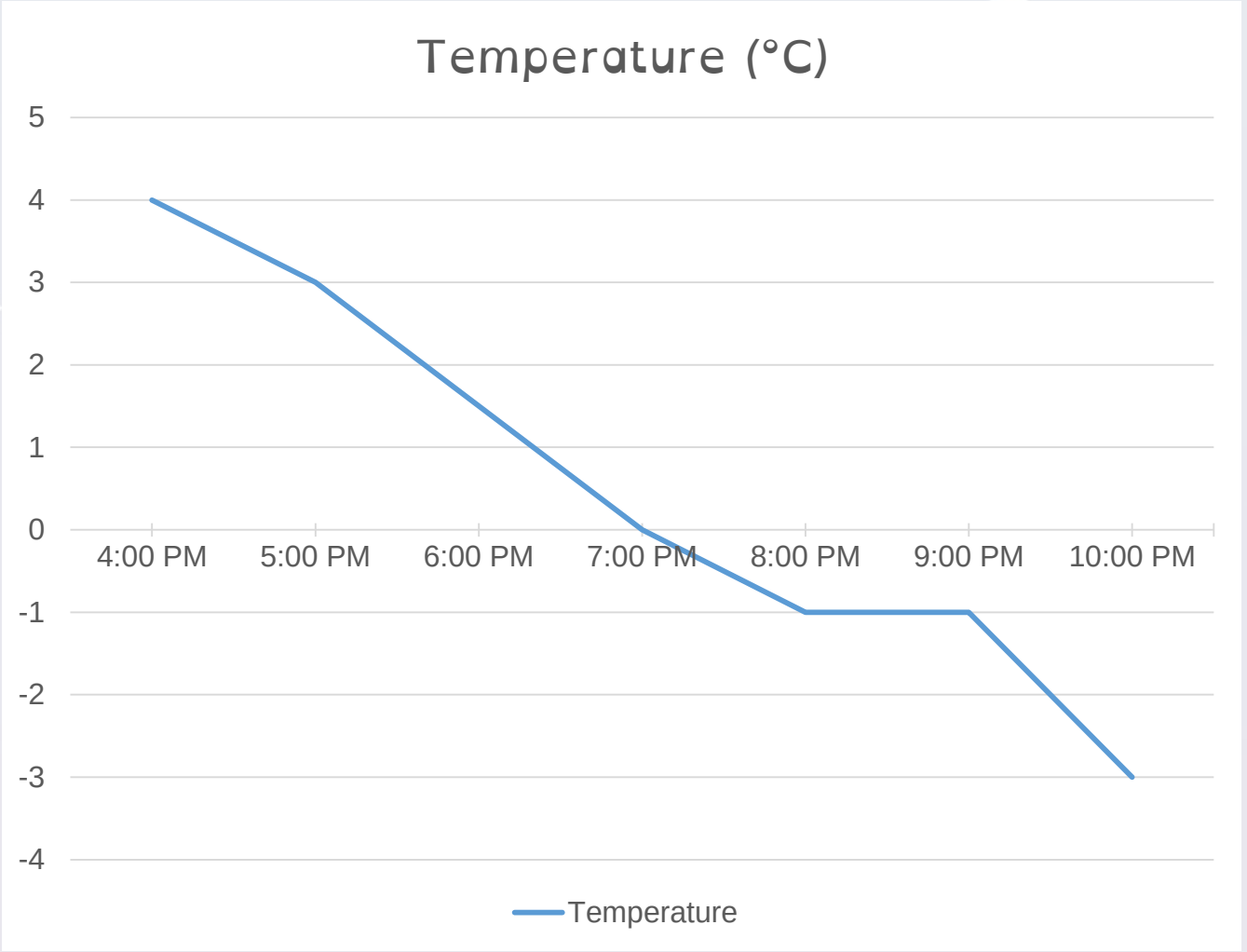
Answer the following questions.

a) What was the temperature at 5:00 pm? 3°C

b) What is the coldest recorded temperature? -3°C

c) At what time was the temperature -2°C?

d) Estimate the temperature at 6:00 pm?



To be able to read and interpret line graphs

Talking Time:

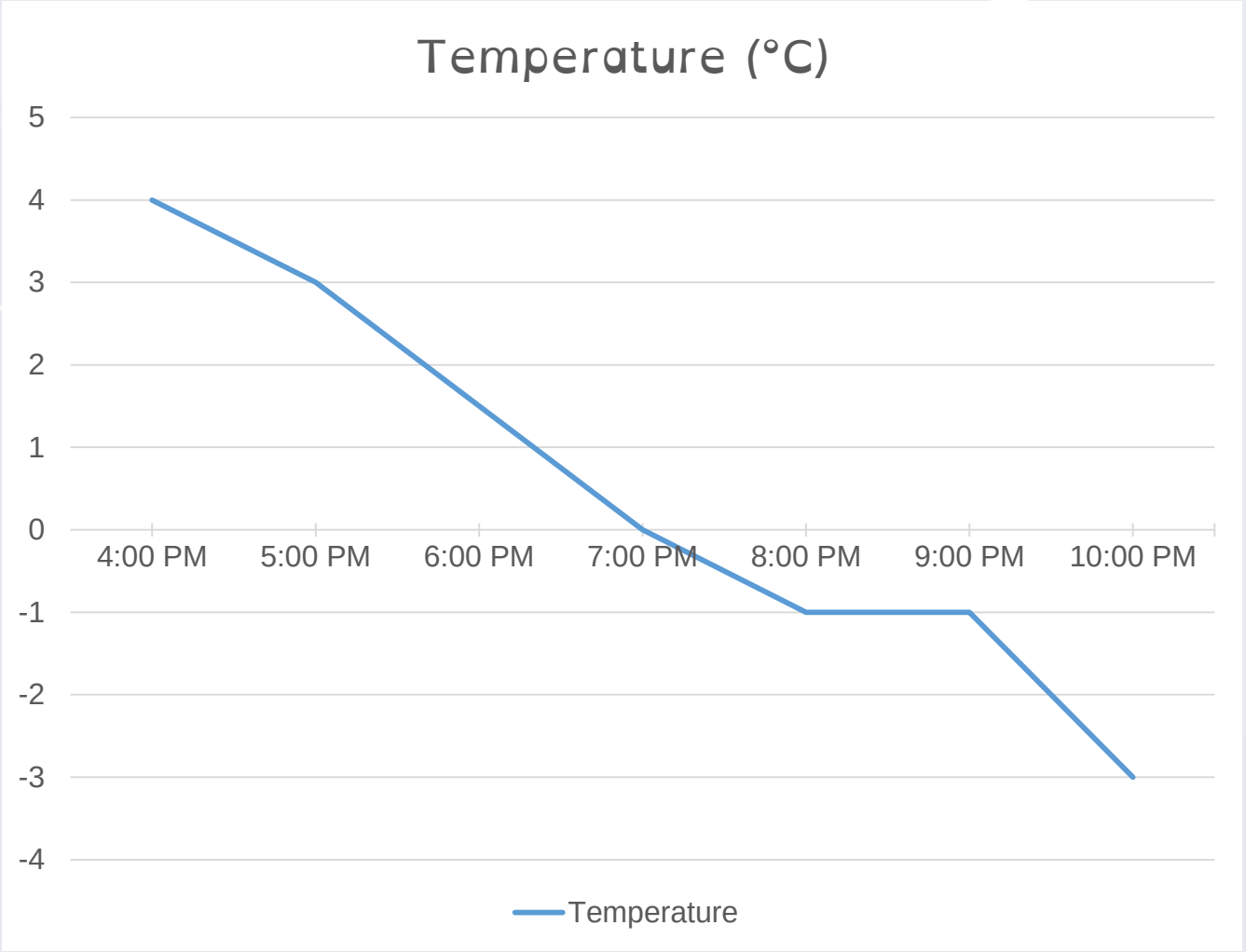
Answer the following questions.

a) What was the temperature at 5:00 pm? 3°C

b) What is the coldest recorded temperature? -3°C

c) At what time was the temperature -2°C? 9:30 pm

d) Estimate the temperature at 6:00 pm?



To be able to read and interpret line graphs

Talking Time:

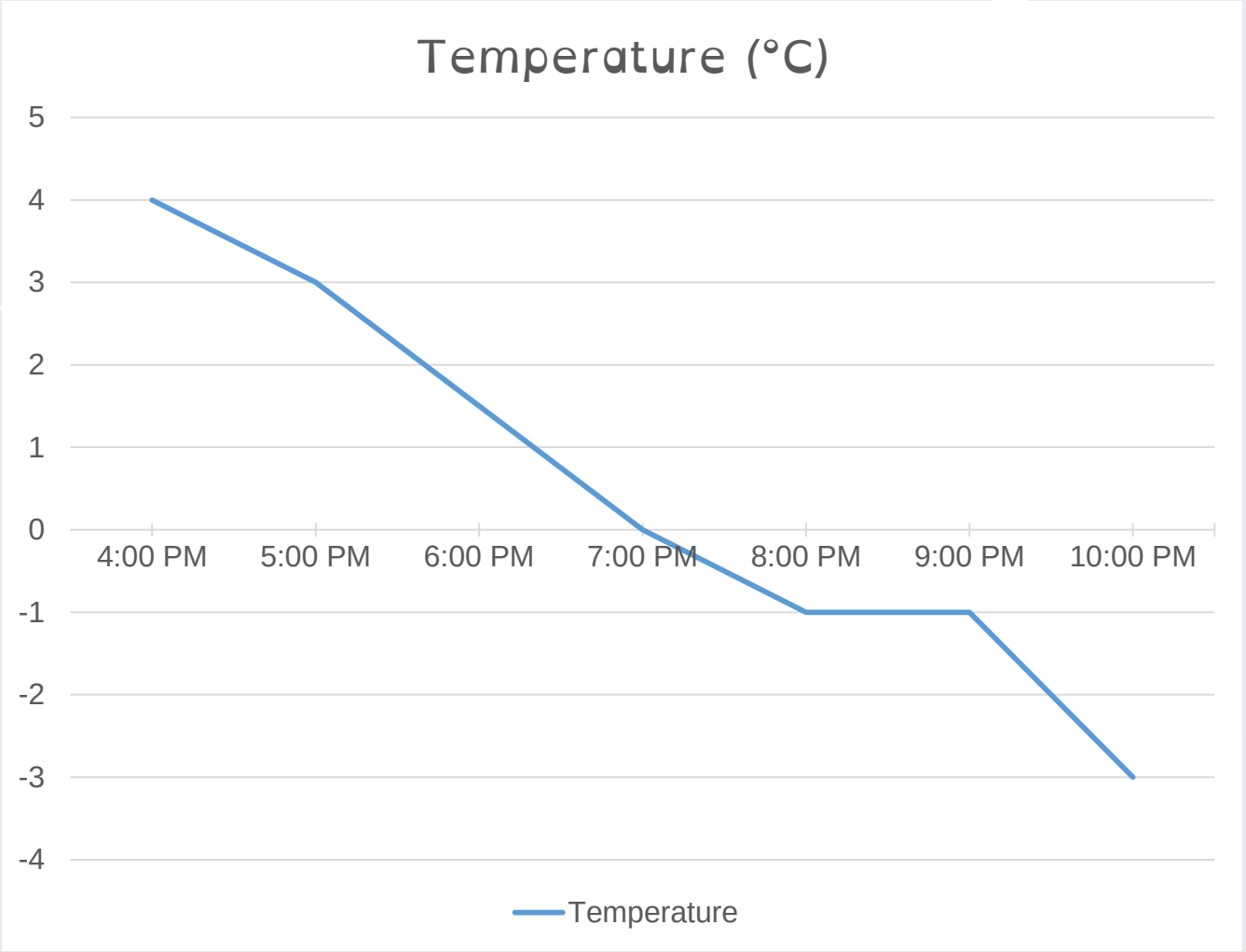
Answer the following questions.

a) What was the temperature at 5:00 pm? 3°C

b) What is the coldest recorded temperature? -3°C

c) At what time was the temperature -2°C? 9:30 pm

d) Estimate the temperature at 6:00 pm? 1.5°C



To be able to read and interpret line graphs

Activity 1:

Answer the following questions.

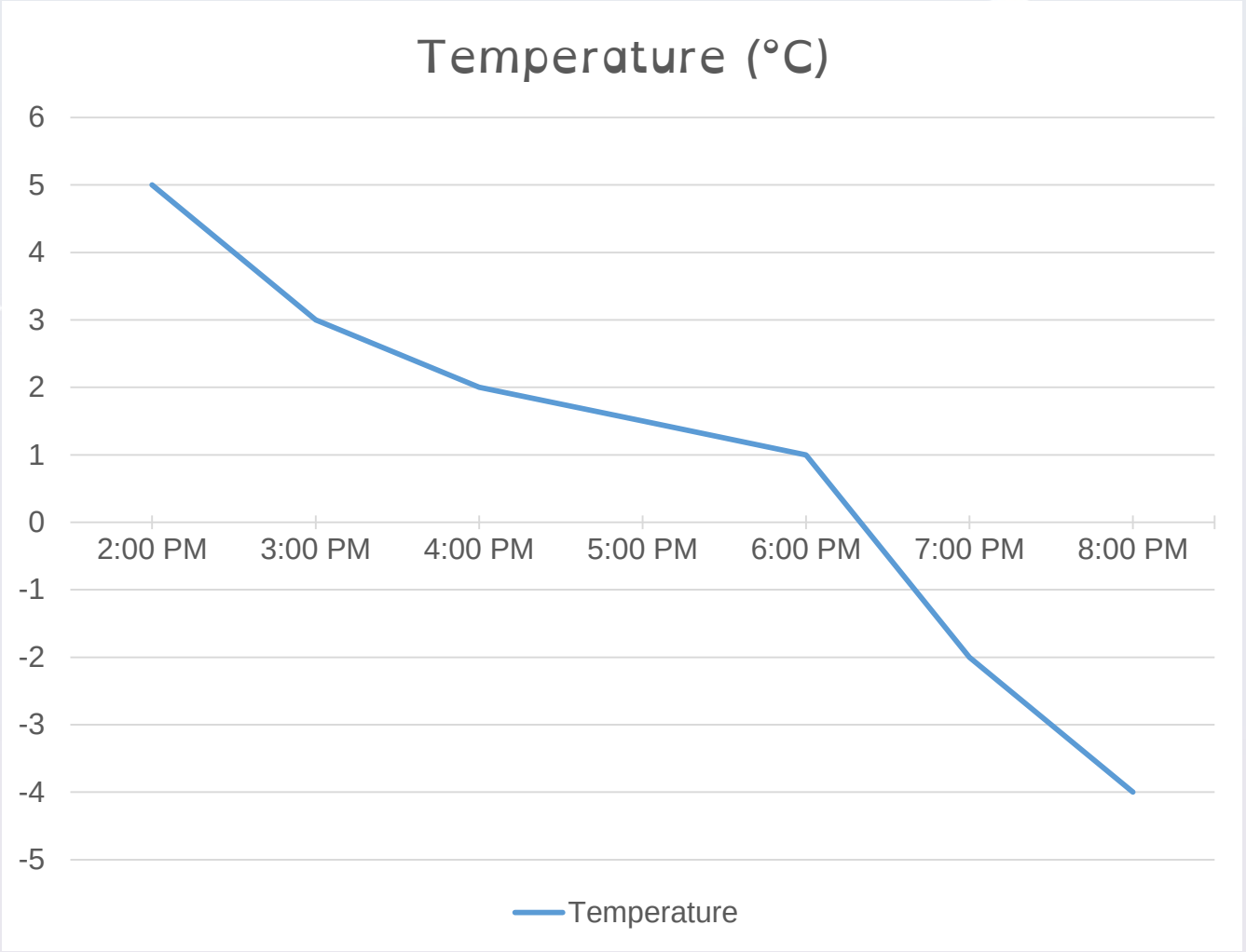
a) What was the temperature at 3:00 pm?

b) What is the hottest recorded temperature?

c) At what time was the temperature -4°C?

d) Estimate the temperature at 5:00 pm?

e) At what time was the temperature -3°C?



To be able to read and interpret line graphs

Activity 1:

Answer the following questions.

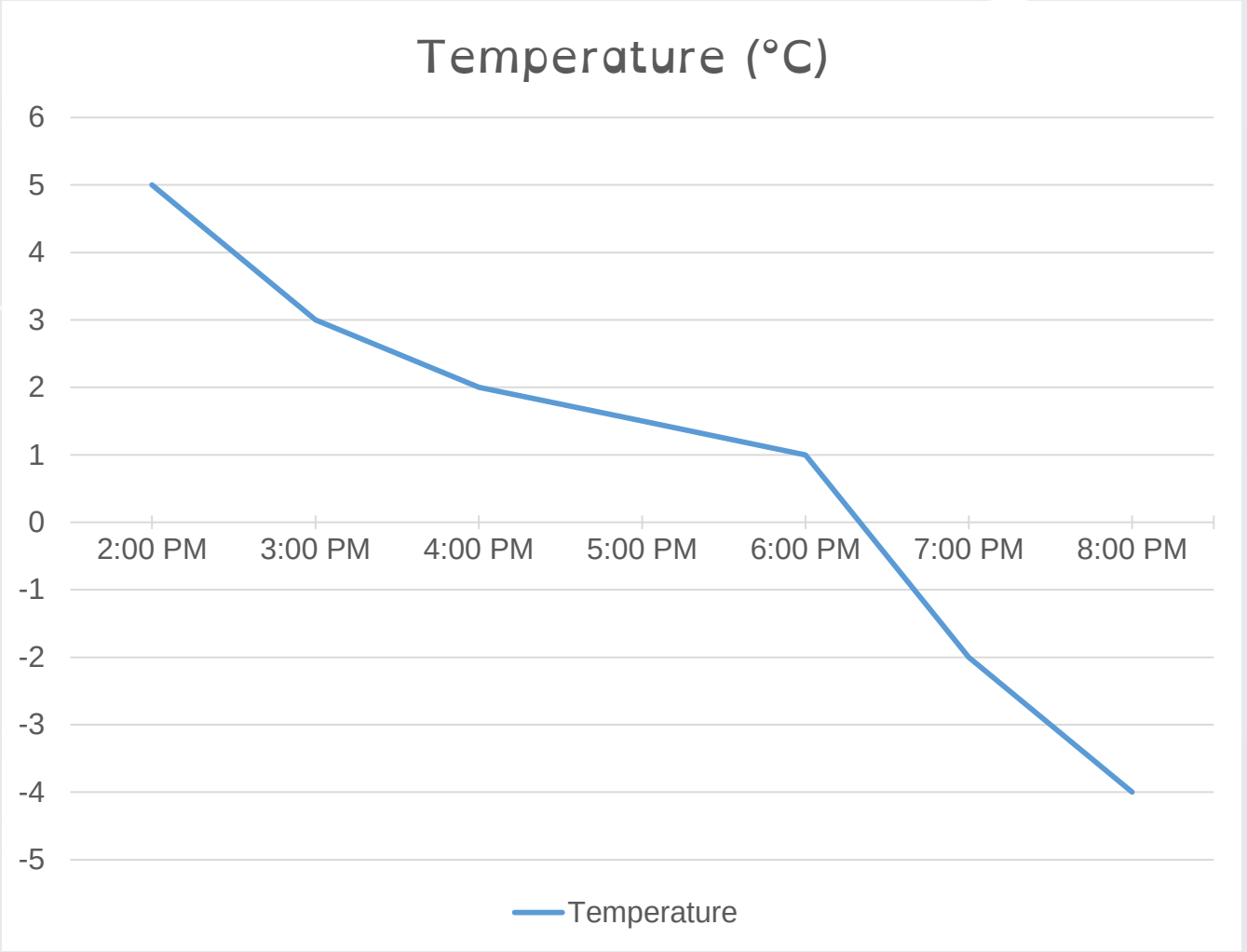
a) What was the temperature at 3:00 pm? 3°C

b) What is the hottest recorded temperature? 5°C

c) At what time was the temperature -4°C? 8:00 pm

d) Estimate the temperature at 5:00 pm? 1.5°C

e) At what time was the temperature -3°C? 7:30 pm



To be able to read and interpret line graphs

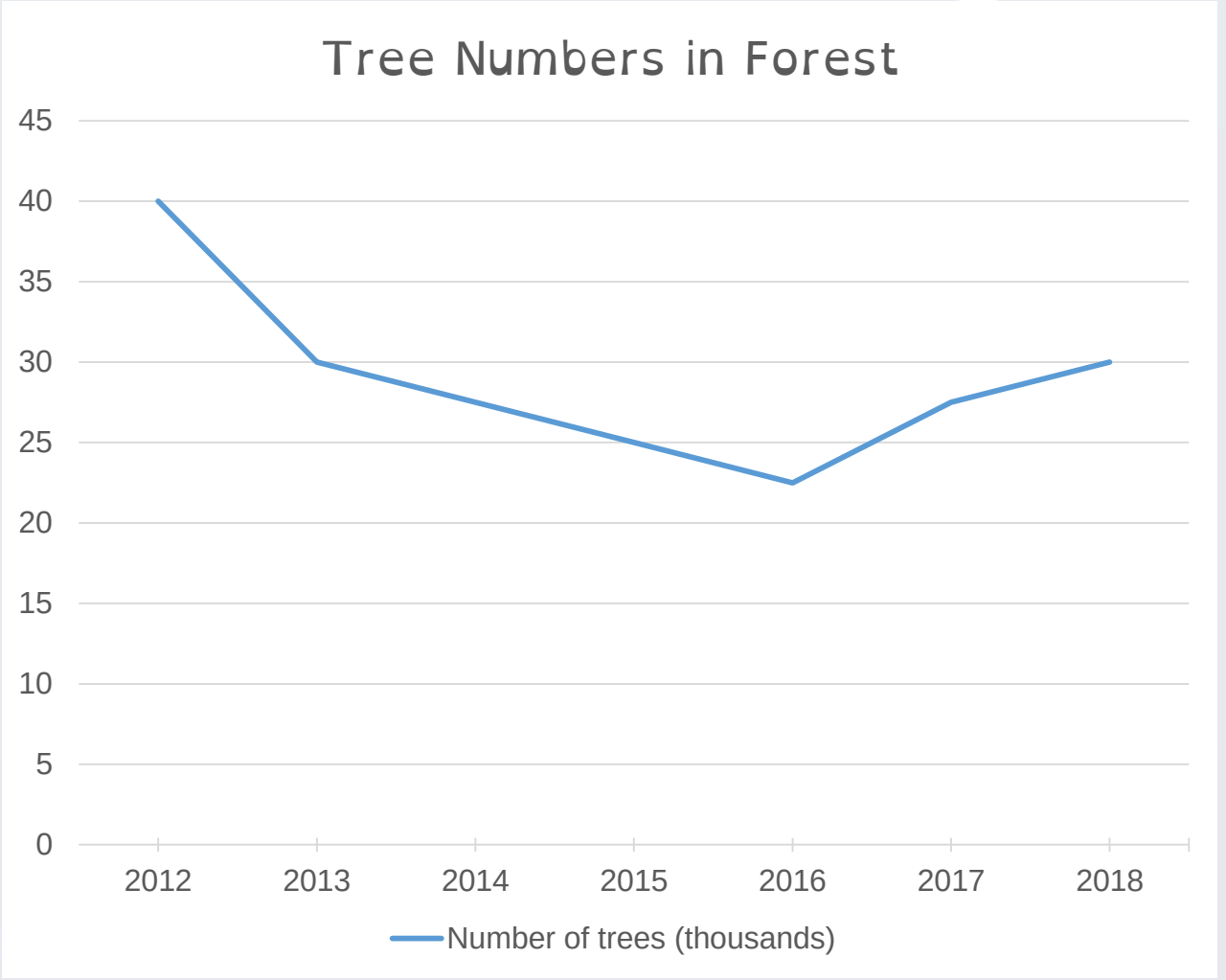
Activity 2:

Answer the following questions.

a) What is the difference between the most and least amount of trees the forest has had?

b) Which year saw a 10,000 decrease in trees?

c) What do you think happened after 2016?



To be able to read and interpret line graphs

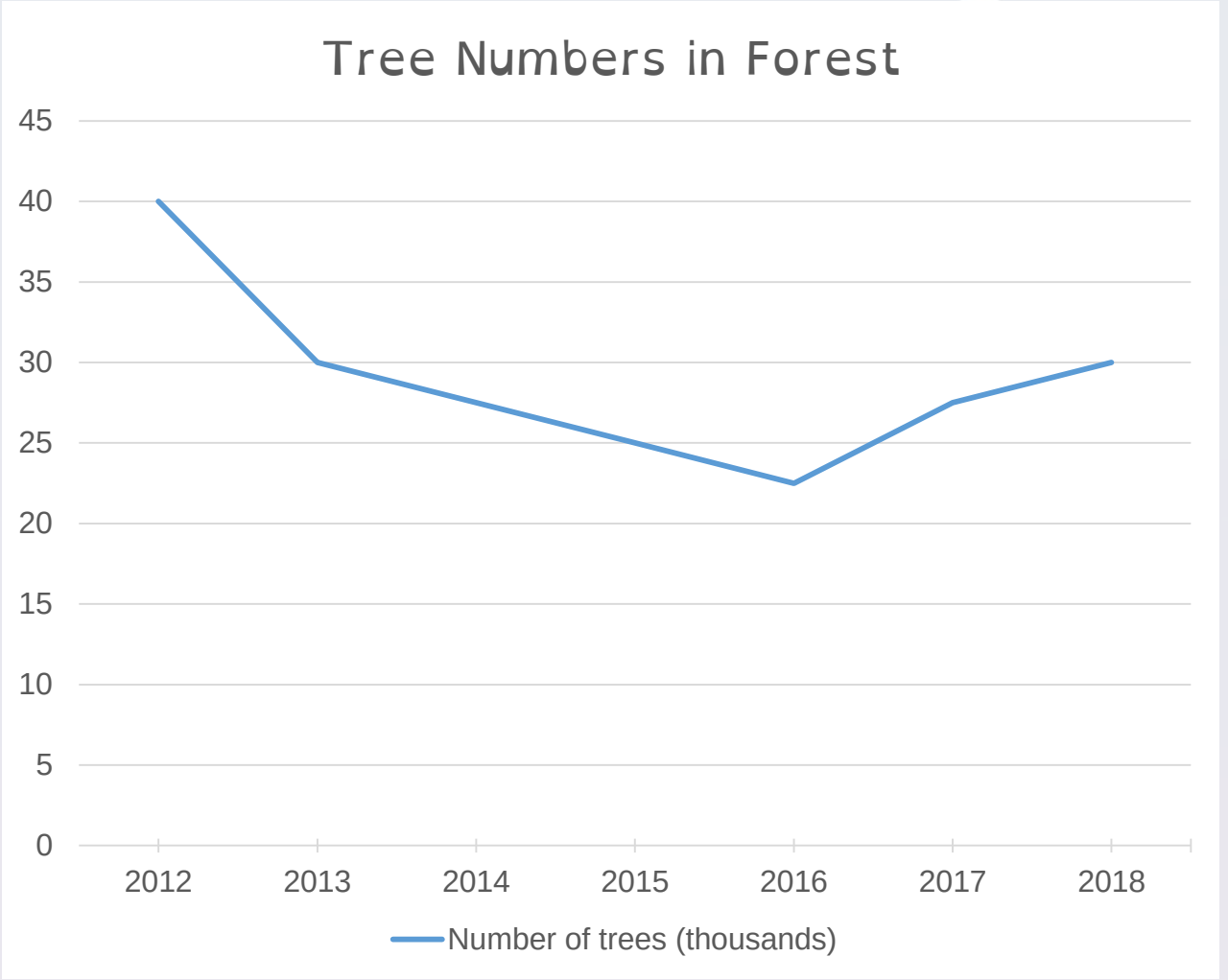
Activity 2:

Answer the following questions.

a) The most trees was 40,000 and the least was 22,500. So, the difference is 17,500.

b) 10,000 trees were lost between 2012 and 2013.

c) The forest started having trees re-planted after 2016, as the tree numbers rise again.



To be able to read and interpret line graphs

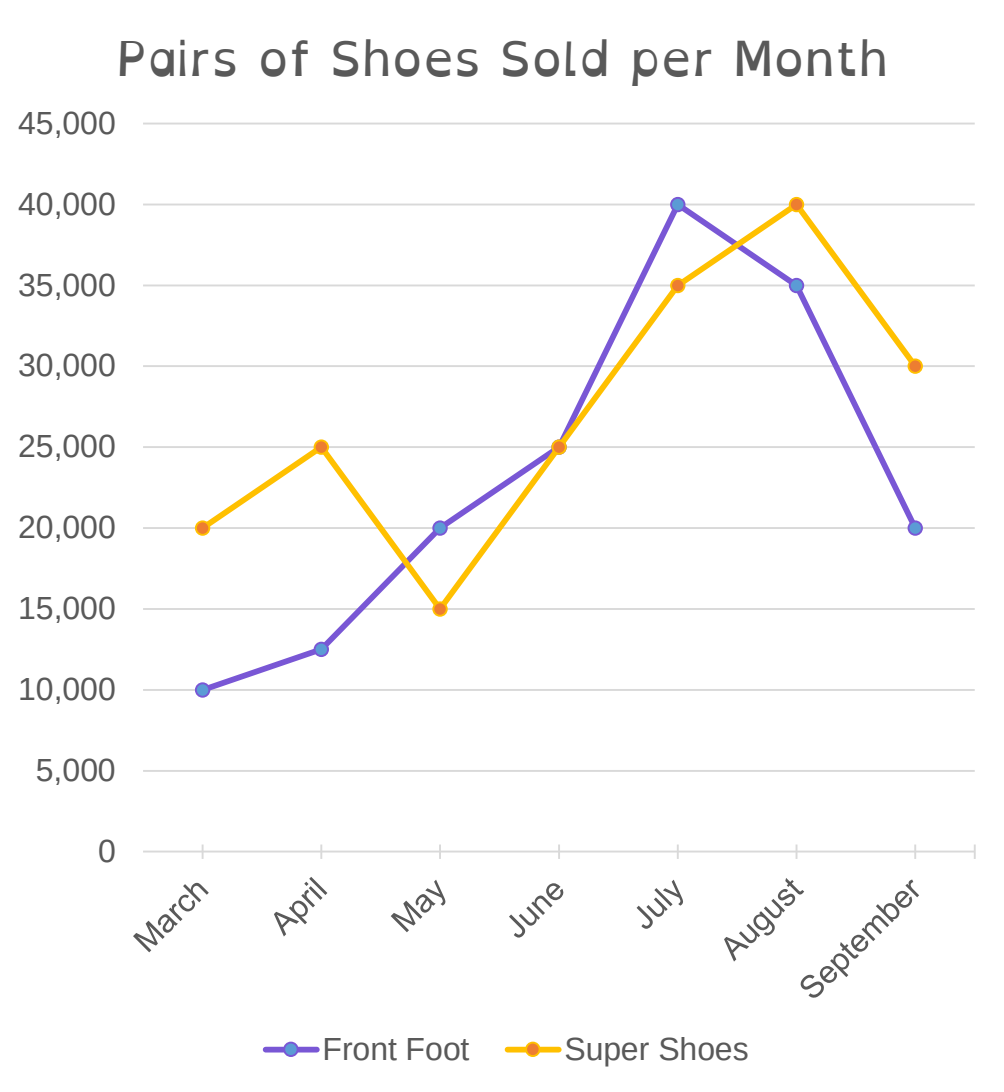
Activity 3:

Answer the following questions.

a) In which month did both shops sell the same number of shoes?

b) How many more shoes did Front Foot sell than Super Shoes in May?

c) Another shoe shop – Best Foot Forward - sold 5,000 less shoes than Front Foot each month, plot their line on the graph.



To be able to read and interpret line graphs

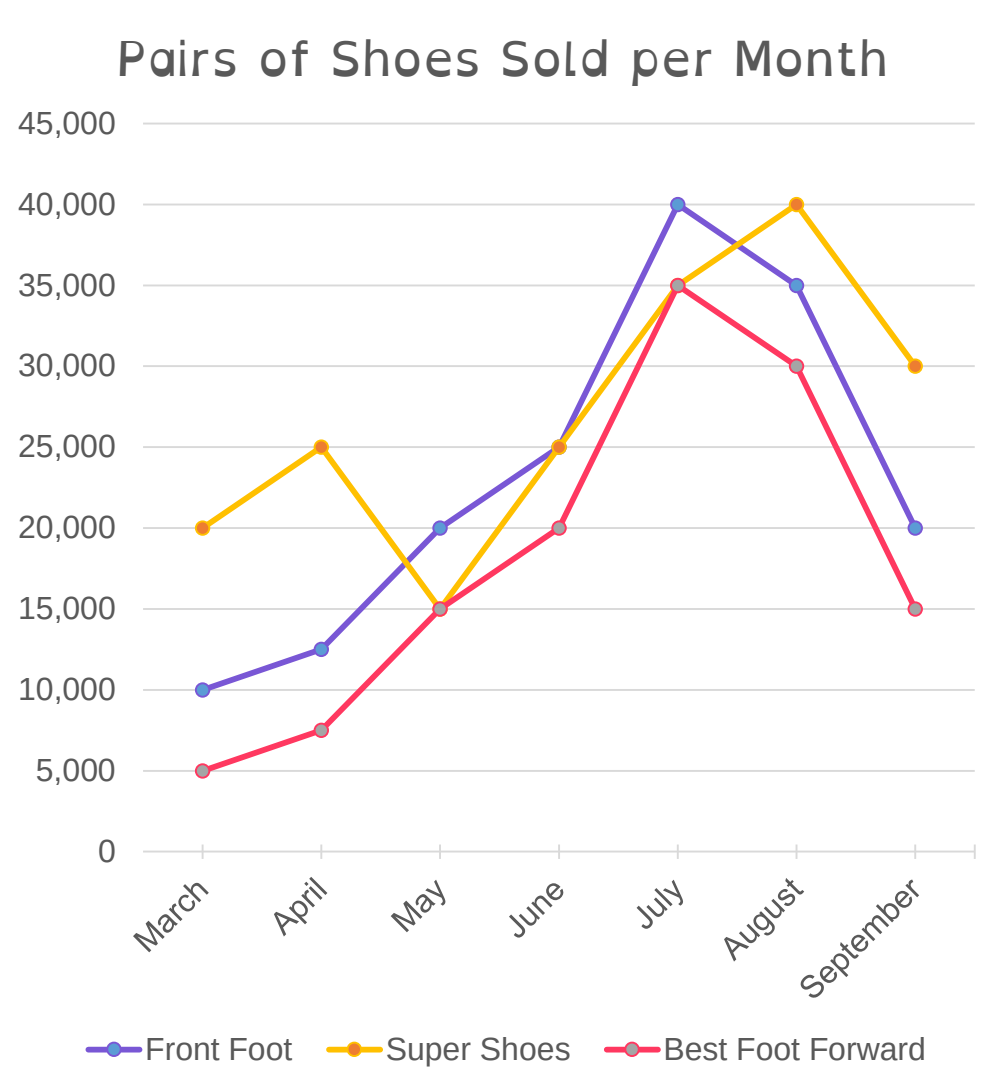
Activity 3:

Answer the following questions.

a) They both sold 25,000 shoes in June.

b) Front Foot sold 5,000 more shoes than Super Shoes in May.

c) Another shoe shop – Best Foot Forward - sold 5,000 less shoes than Front Foot each month, plot their line on the graph.



To be able to read and interpret line graphs

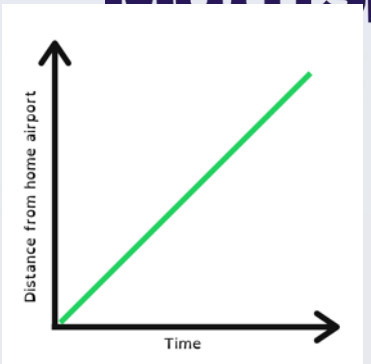
Activity 4:

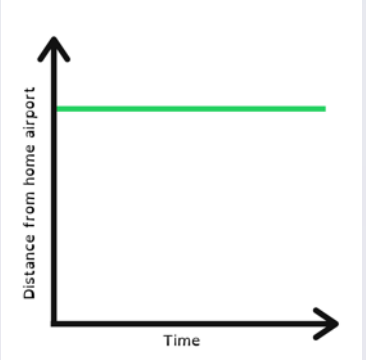
Match the labels to the correct graph.

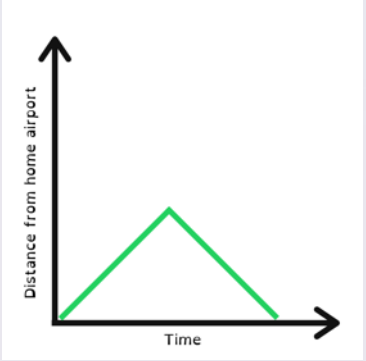
A plane is parked on a runway that isn't at its home airport.

A plane flies halfway to another destination, but has to come back.

A plane is flying away from its base at a steady rate of 500 miles per hour.







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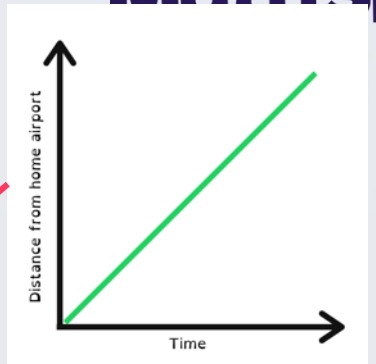
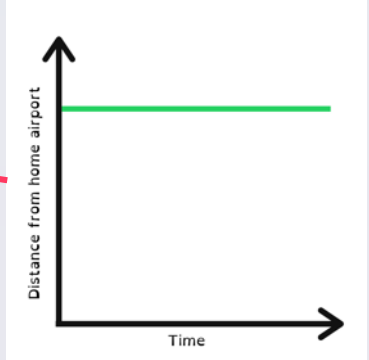
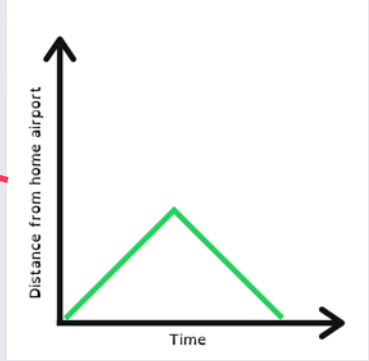
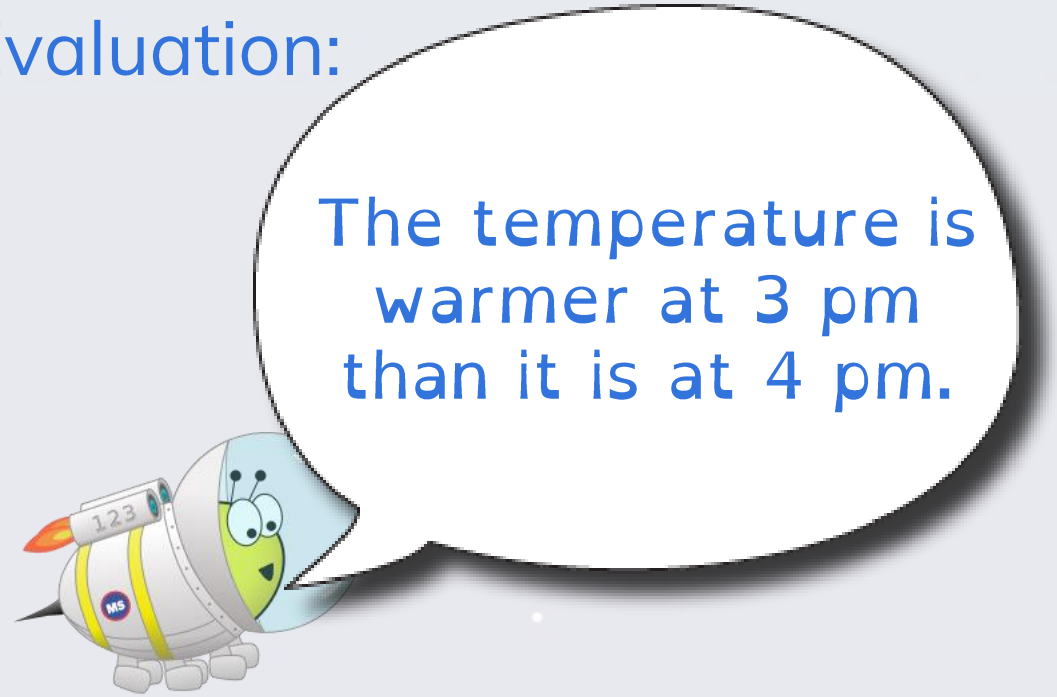


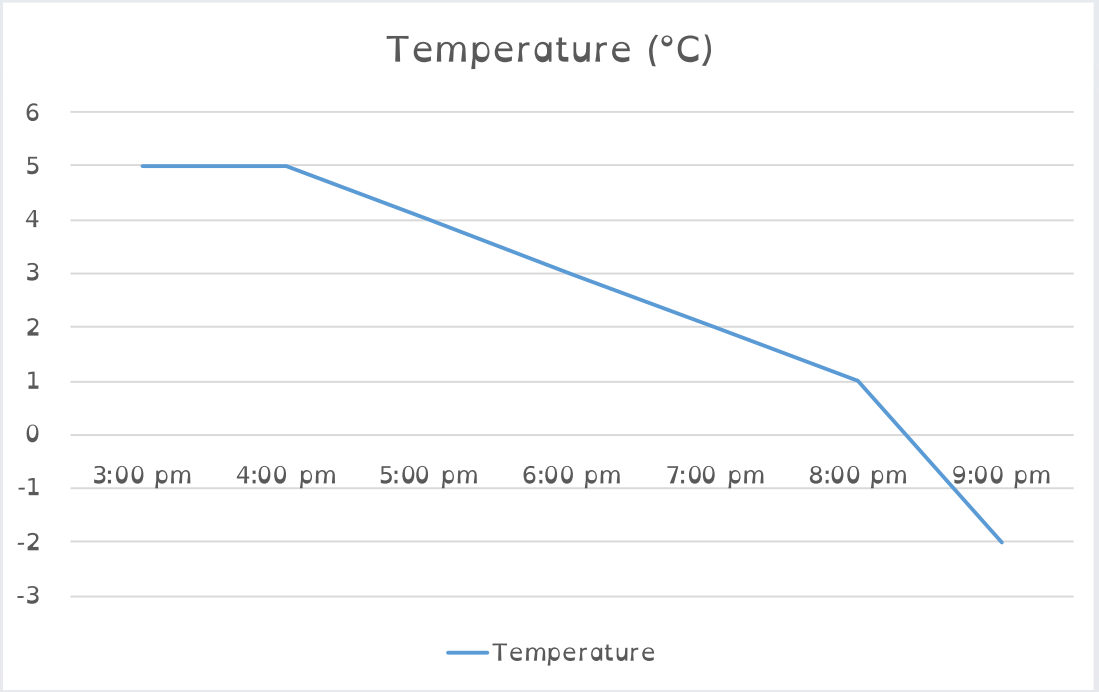




To be able to read and interpret line graphs

Evaluation:



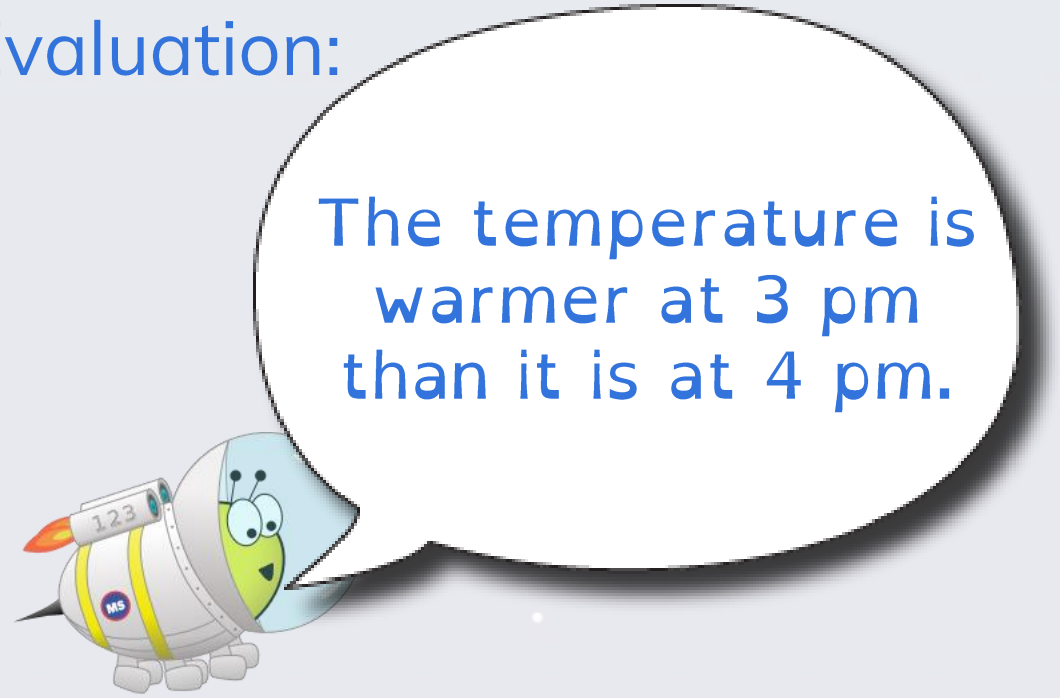


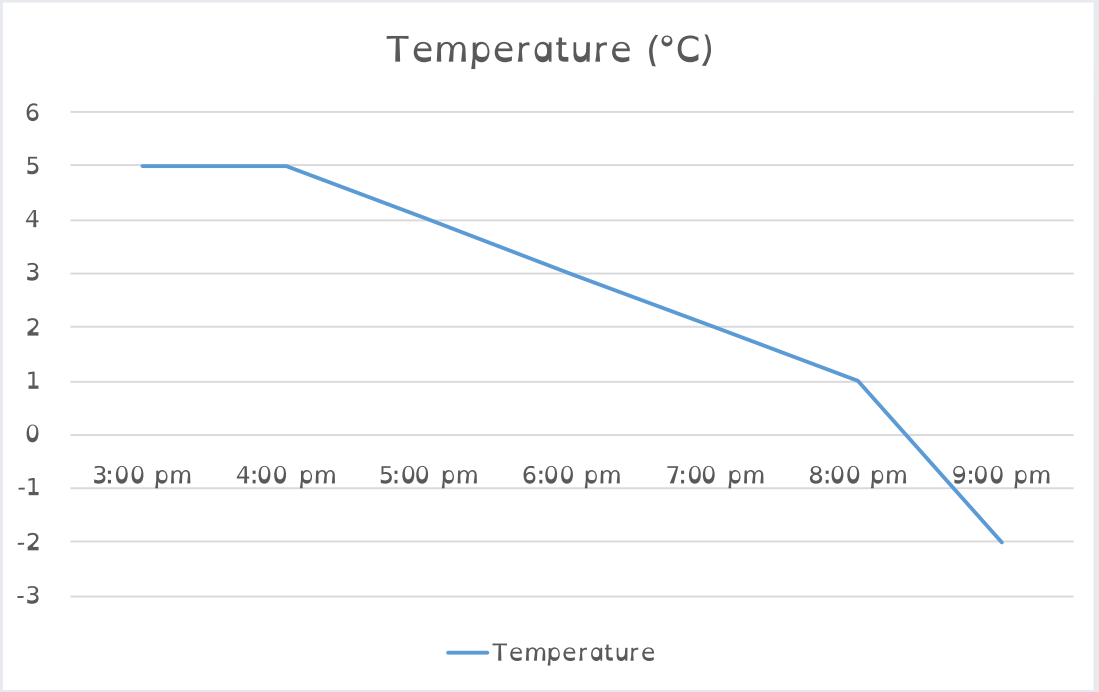
Is Astrobee's statement true or false?

Explain your answer.

To be able to read and interpret line graphs

Evaluation:





Astrobee has made a false statement - the temperature is 5°C at 3 pm and 5°C at 4 pm, which means the temperatures are the same not warmer at 3 pm.

To be able to read and interpret line graphs

Success criteria:

- ✓ I can use my knowledge of number lines to read values on horizontal and vertical lines, drawing vertical and horizontal lines to give accurate readings
- ✓ I can explain my reasoning when using my knowledge of number lines to read values on horizontal and vertical lines, drawing vertical and horizontal lines to give accurate readings