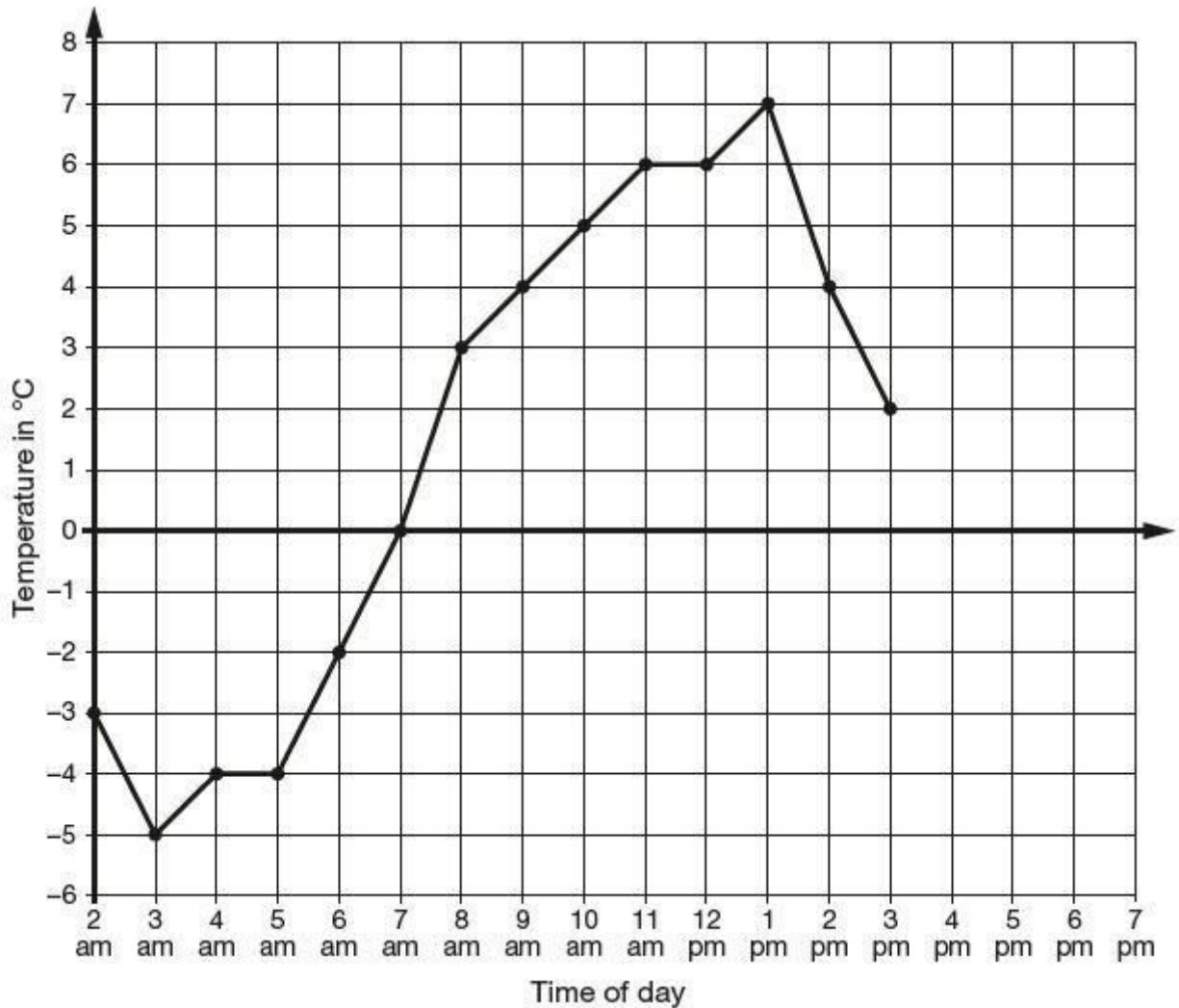


### Session 3 Q1.

This graph shows the temperature in °C from 2 am to 3 pm on a cold day.



How many degrees **warmer** was it at 3 pm than at 3 am?

1 mark

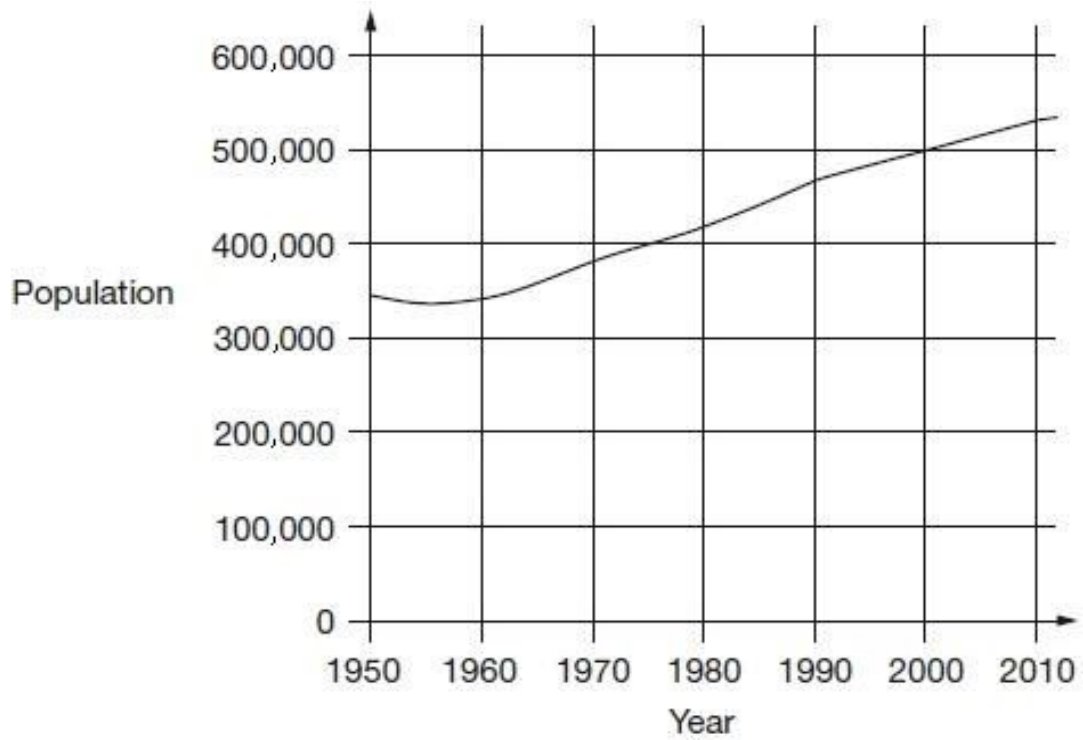
At 6 pm the temperature was 4 degrees lower than at 3 pm.

What was the temperature at 6 pm?

1 mark

**Q2.**

This chart shows the population of Cornwall from 1950 to 2010.



Look at the chart.

In which year did the population first reach 400,000?

1 mark

How much did the population increase from 1950 to 2000?

1 mark

What was the population of Cornwall in 2010?

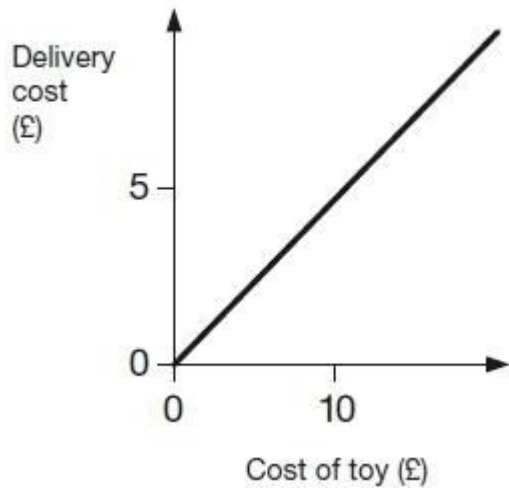
1 mark

**Q3.**

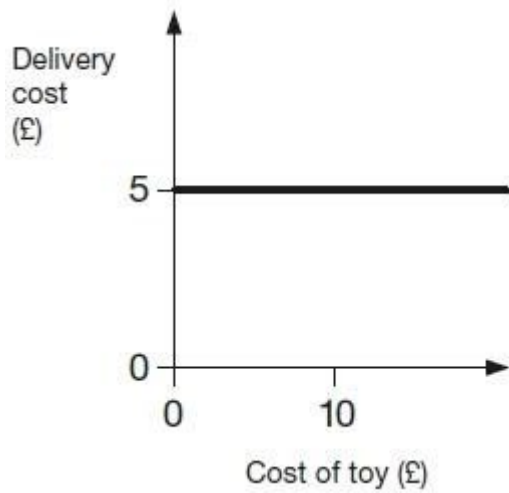
Two companies sell toys online. They charge to deliver.

Describe the delivery cost of the second company.

The first company is done for you.



The more a toy costs, the more  
\_\_\_\_\_ the delivery costs.  
\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

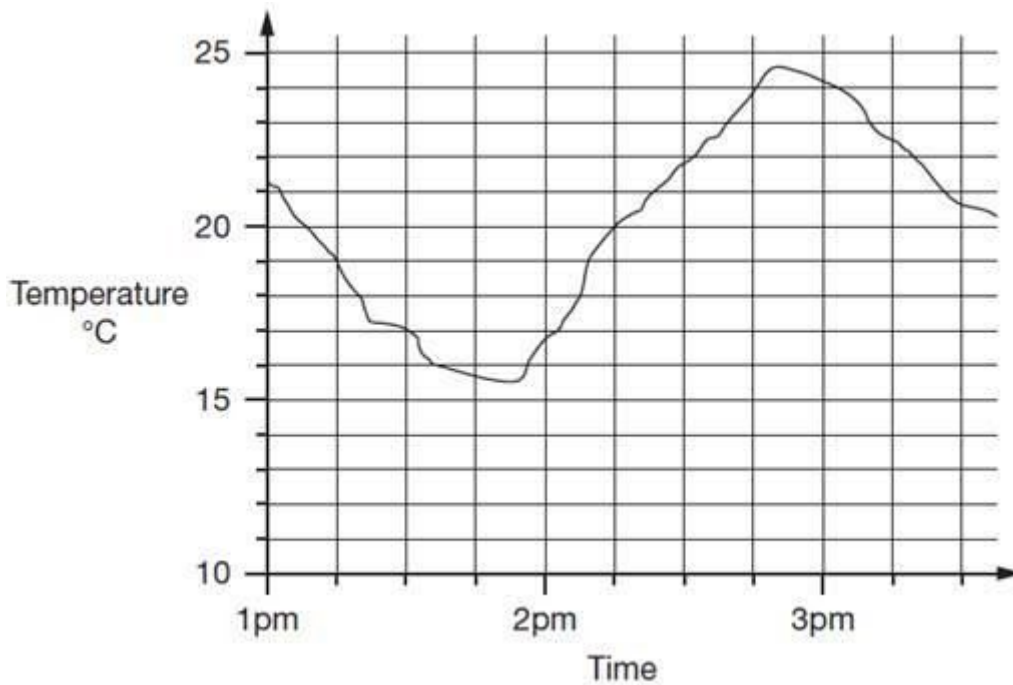
\_\_\_\_\_

\_\_\_\_\_

1 mark

**Q4.**

This graph shows how the temperature changed in Liam's room one afternoon.



Estimate the temperature at 3:15pm.

 °C

1 mark

Estimate the time when the temperature was highest.

 pm

1 mark

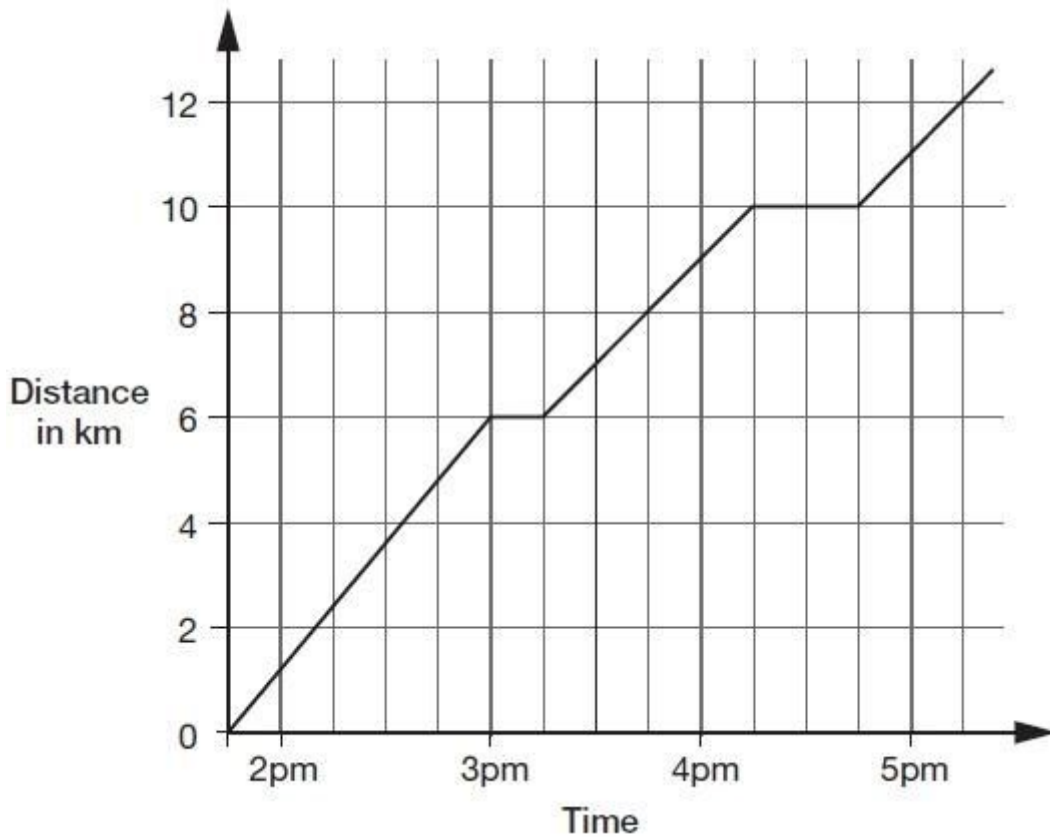
How much did the temperature change from 2pm to 2:30pm? Give your answer to the **nearest degree**.

 degrees

1 mark

**Q5.**

This graph shows the distance Alfie and Chen walked in an afternoon. They started at 1:45pm and had two breaks.



How many kilometres did they walk **between** the first and second breaks?

km

1 mark

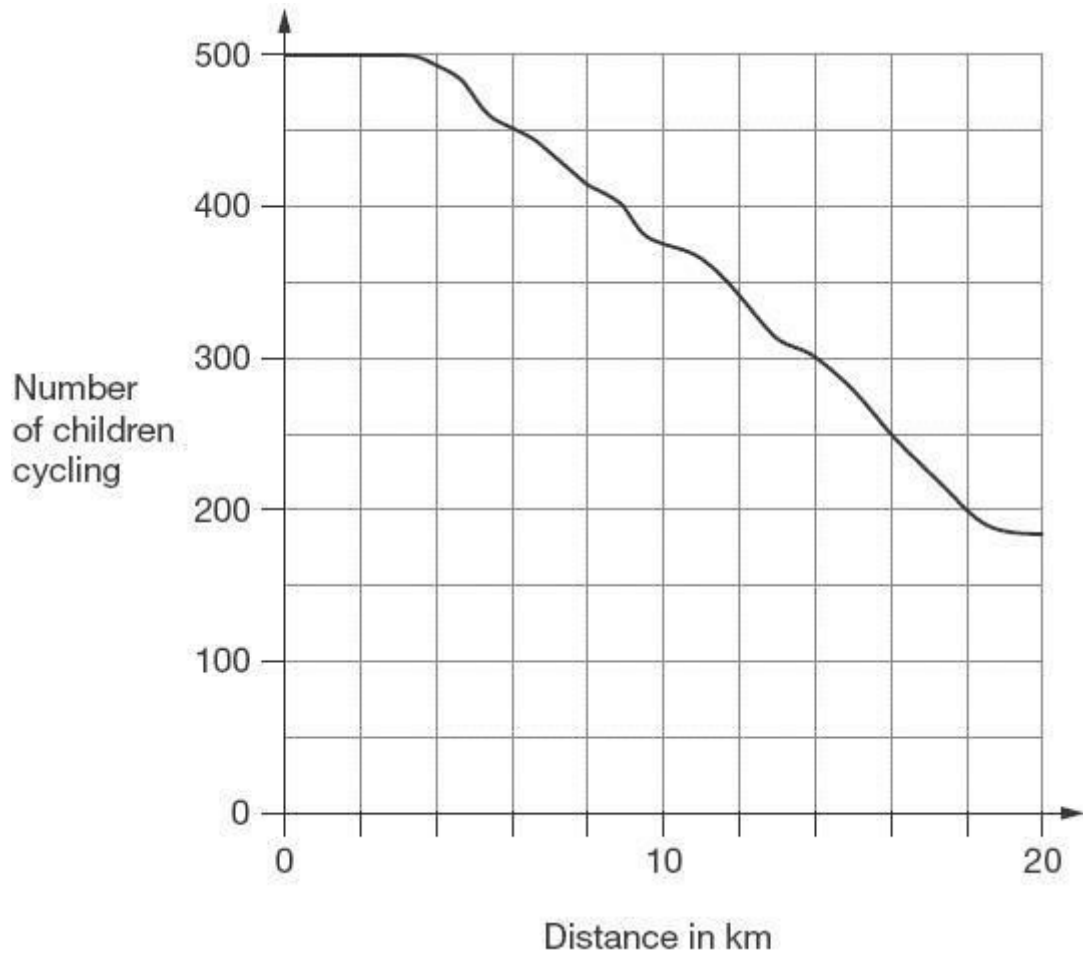
At what time did Alfie and Chen start their second break?

1 mark

**Q6.**

500 children started a 20 kilometre sponsored cycle ride.

This graph shows how far they cycled.



At what distance were exactly half of the children still cycling?

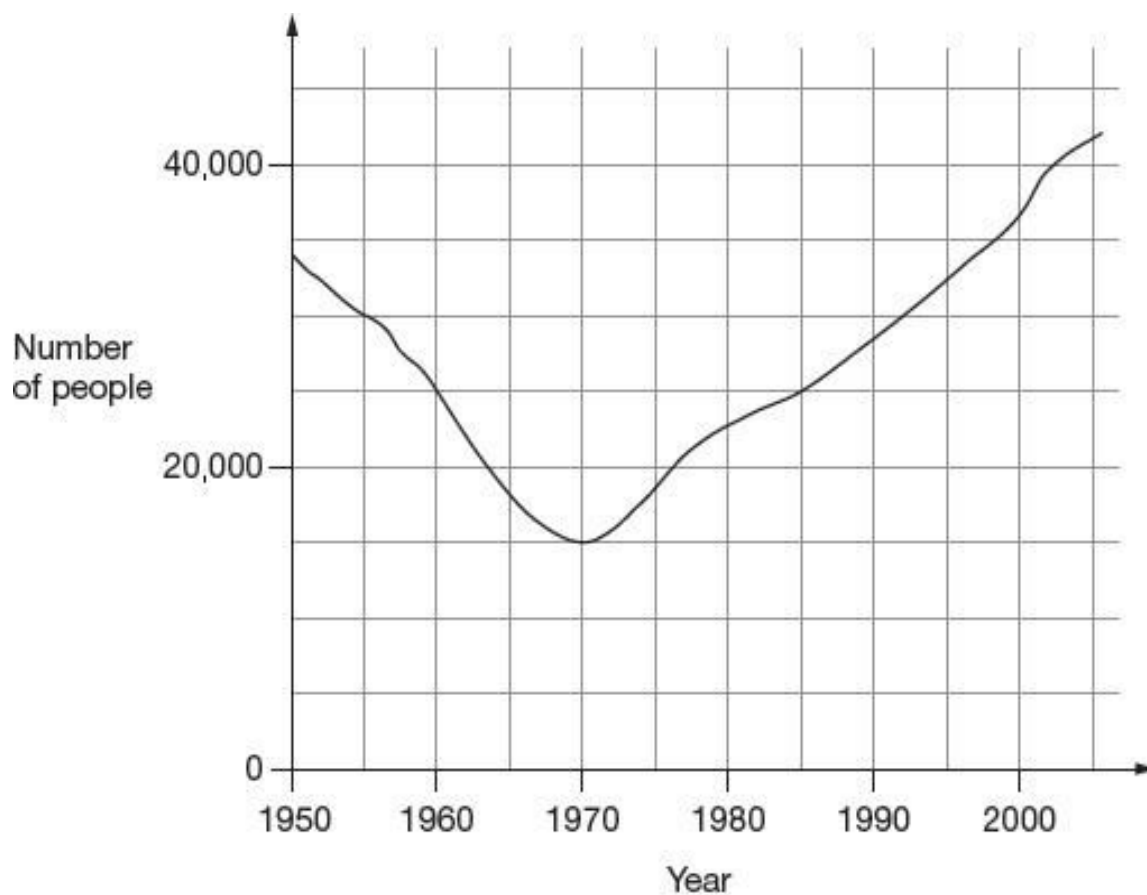
1 mark

Estimate how many children completed the 20 kilometre cycle ride.

1 mark

**Q7.**

This graph shows the number of people living in a town.



Look at the graph.

How many people lived in the town in 1985?

1 mark

In which year was the number of people the same as in 1950?

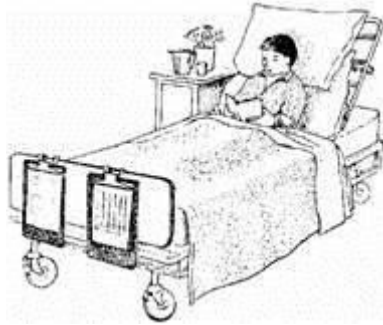
1 mark

Find the year when the number of people first went below 20,000

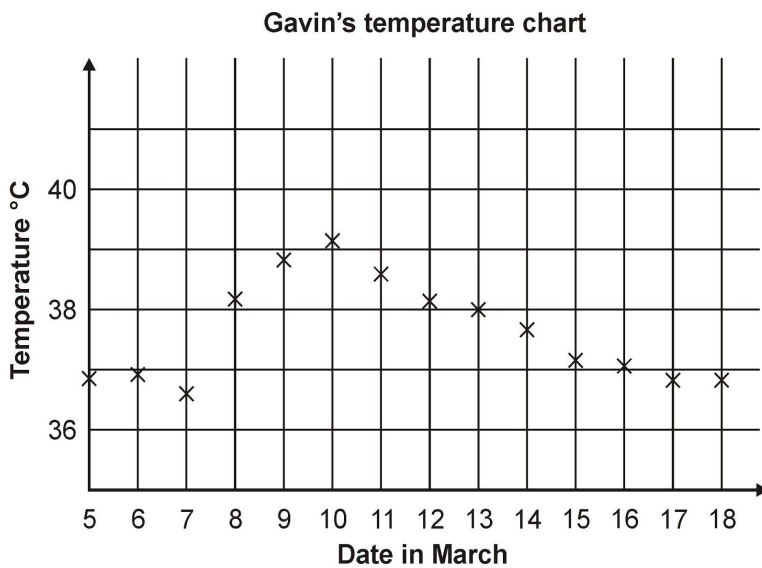
1 mark

**Q8.**

Gavin was ill in March.



This is his temperature chart.



For how many days was his temperature marked as **more than 37°C**?

1 mark

Which **date** showed the largest **change in temperature** from the day before?



1 mark

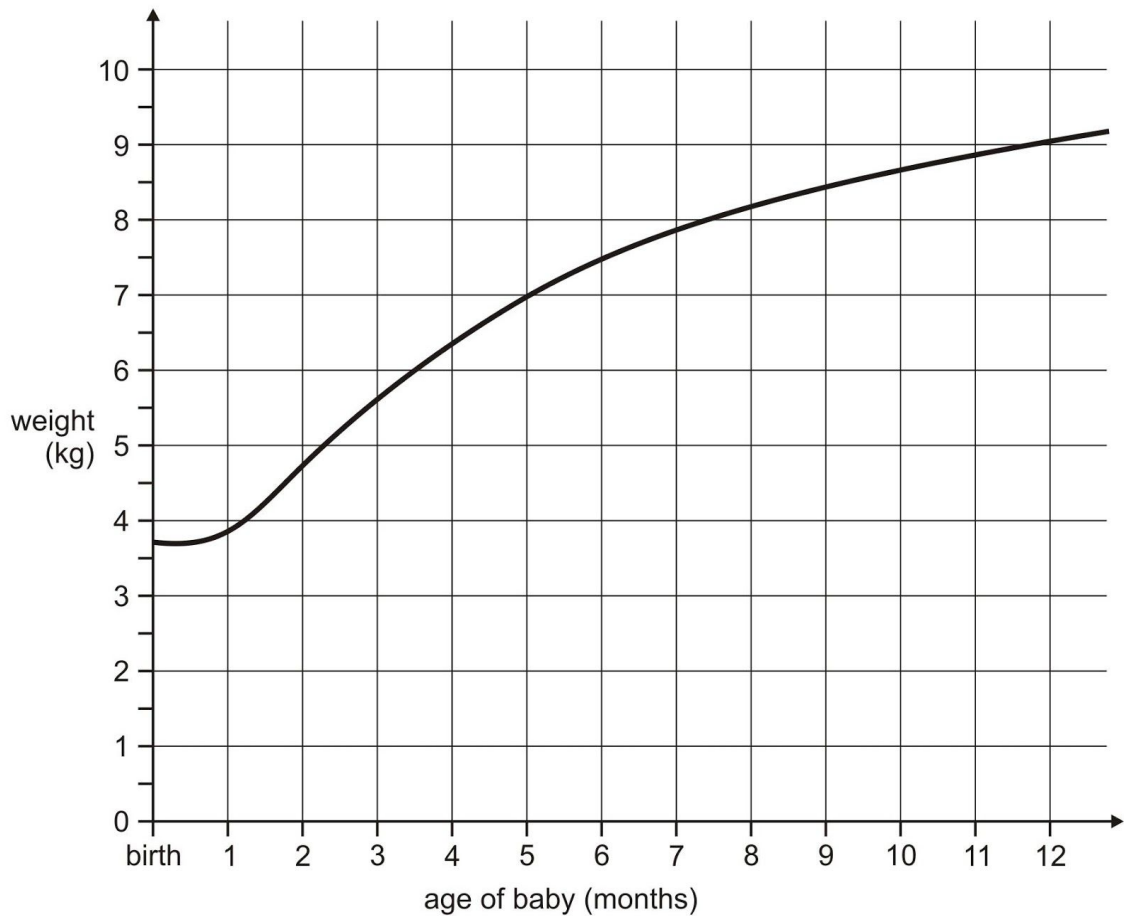
Estimate Gavin's **highest** temperature shown on the graph.

Give your answer to **1 decimal place**.

1 mark

**Q9.**

This graph shows how the weight of a baby changed over twelve months.



From the graph, what was the weight of the baby at **10 months**?

1 mark

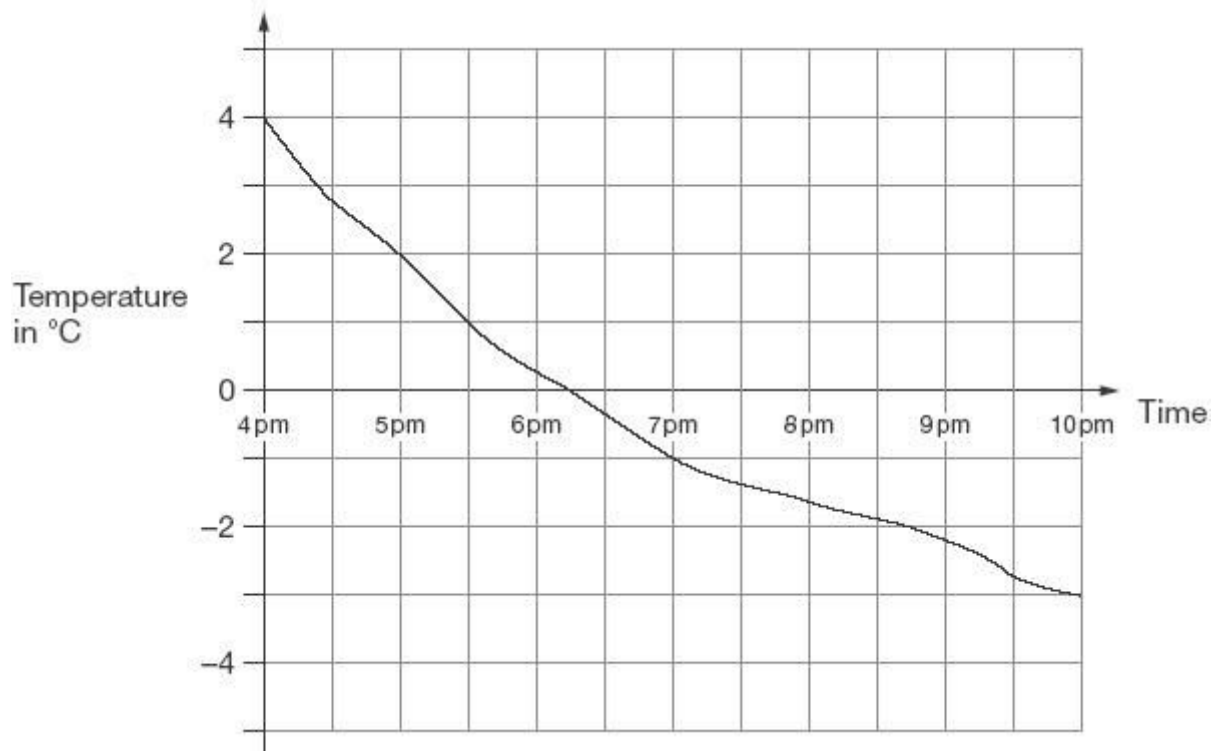
How much **more** did the baby weigh at 5 months than at birth?

kg

1 mark

**Q10.**

This graph shows the outside temperature from 4 pm to 10 pm on a day in winter.



At what time was the temperature  $-2^{\circ}\text{C}$ ?

1 mark

How many degrees did the temperature drop from 5 pm to 7 pm?

**degrees**

1 mark

## Mark schemes

### Q1.

(a) 7

1

**Do not accept** -7 or 7-

(b) -2

1

**Do not accept** 2-

[2]

### Q2.

(a) 1974 **OR** 1975 **OR** 1976

1

(b) A whole number answer in the range 130 000 to 180 000 **inclusive**.

1

(c) A whole number answer in the range 510 000 to 550 000 **exclusive**.

**Do not accept** 510 000 **OR** 550 000

1

[3]

### Q3.

Gives a correct description that indicates the delivery cost is constant, eg:

- The delivery cost is always £5
- The cost is always £5 no matter how much the toy costs
- Delivery stays the same as the cost of toy increases

*Accept minimally acceptable explanation, eg:*

- *It is £5*

*Accept omission of the actual delivery cost, eg:*

- *It always costs the same*
- *The cost is the same*
- *The cost of the toy does not affect the delivery cost*

*! Condone correct response with the pound sign omitted, eg:*

- *It is always 5*

*! Condone explanations which refer to toys costing up to £20*

**Do not accept** incomplete or ambiguous explanation, eg:

- *They are equal amounts*

[1]

### Q4.

- (a) Accept answers in the range 22.2 to 22.8 exclusive.

*Do not accept 22.2 or 22.8*

1

- (b) Accept answers in the range 2:48pm to 2:52pm inclusive.

*The answer is a specific time.*

1

- (c) 5

1

[3]

**Q5.**

- (a) 4 km

1

- (b) 4:15pm

*The answer is a specific time*

1

[2]

**Q6.**

- (a) 16

1

- (b) A whole number in the range 180 to 190 inclusive

1

[2]

**Q7.**

- (a) 25000

*Accept answers in the range 24500 to 25500 inclusive.*

1

- (b) 1996 **OR** 1997 **OR** 1998

1

- (c) 1963 **OR** 1964

1

[3]

**Q8.**

- (a) 9

1

- (b) 8th of March

*Accept 8*

*Accept '7th – 8th' or similar.*

*Do not accept 7th.*

1

(c) 39.1 **OR** 39.2

1

[3]

**Q9.**

(a) Any value in the range 8.6 to 8.8 inclusive.

1

(b) Any value in the range 3.2 to 3.4 inclusive.

1

[2]

**Q10.**

(a) Answer in the range of 8:40 pm to 8:50 pm inclusive  
*The answer is a specific time*

1

(b) 3

***Do not accept –3***

1