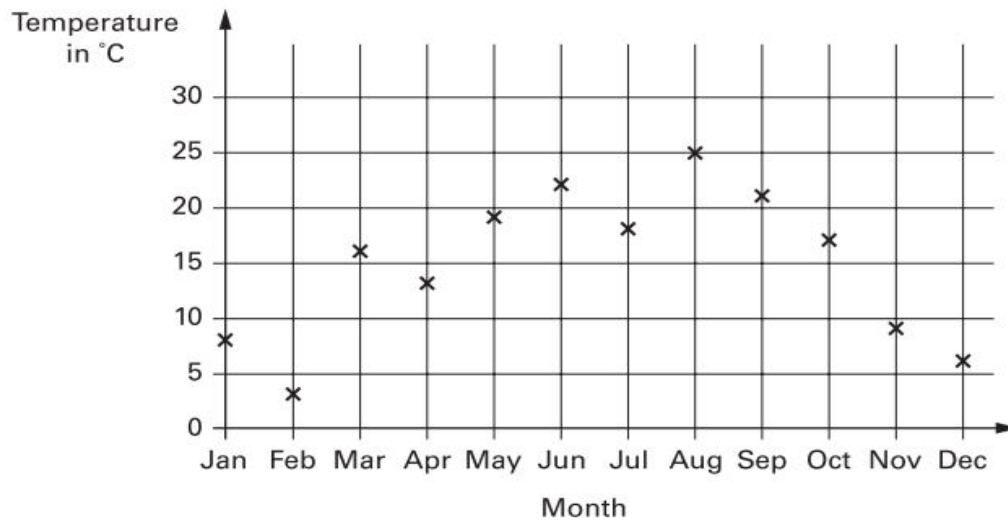# Graphs - Questions

Key Stage 2: 2004 Paper A

1.

9 Abbie takes the temperature outside at midday on the first day of each month.

The graph shows her results from January to December.

How many months on the graph show a temperature **between 10°C and 20°C**?
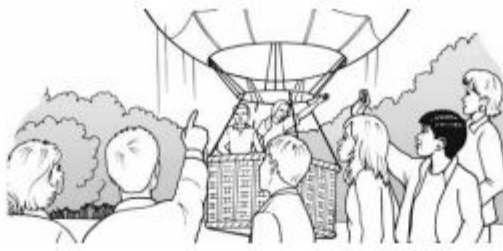
9a

1 mark

Find the difference in temperature shown on the graph between **July** and **August**.
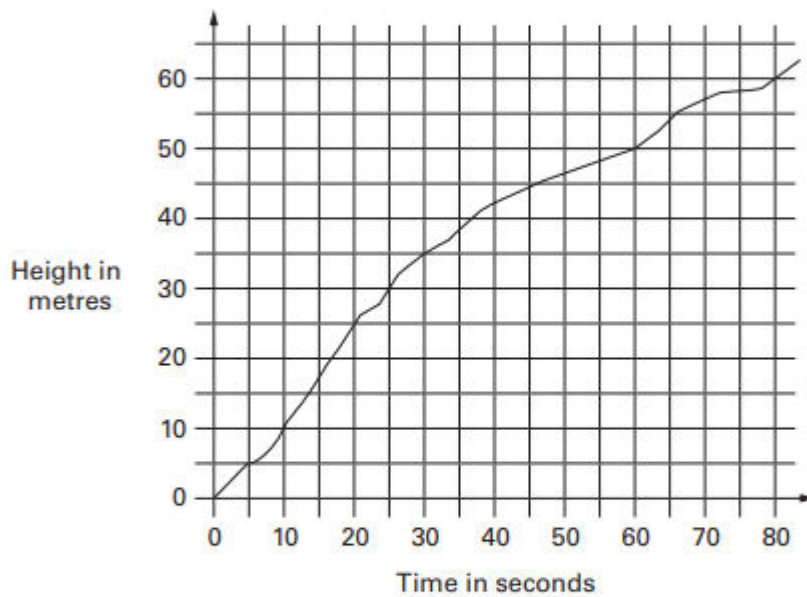
degrees

9b

1 mark

Key Stage 2: 2004 Paper B

1.

16

This graph shows the height of a balloon at different times.

Height in metres

Time in seconds

From the graph, find the height of the balloon at 50 seconds.

☐ m

16a

1 mark

Use the graph to find how long it took the balloon to rise from 30 metres to 60 metres.
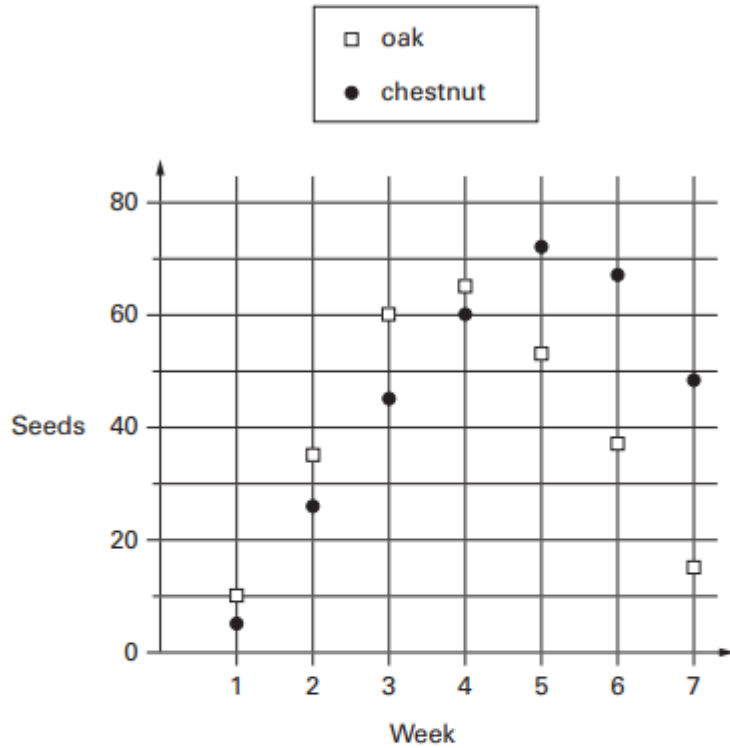
☐ seconds

16b

1 mark

Key Stage 2: 2005 Paper A

1.

15 Class 6 count how many seeds they find under two trees.

They show the data in a graph.

□ oak
● chestnut

Seeds

Week

How many seeds did they find in week 3 **altogether?**

[ ] **seeds**

15a

1 mark

In **how many weeks** did they find
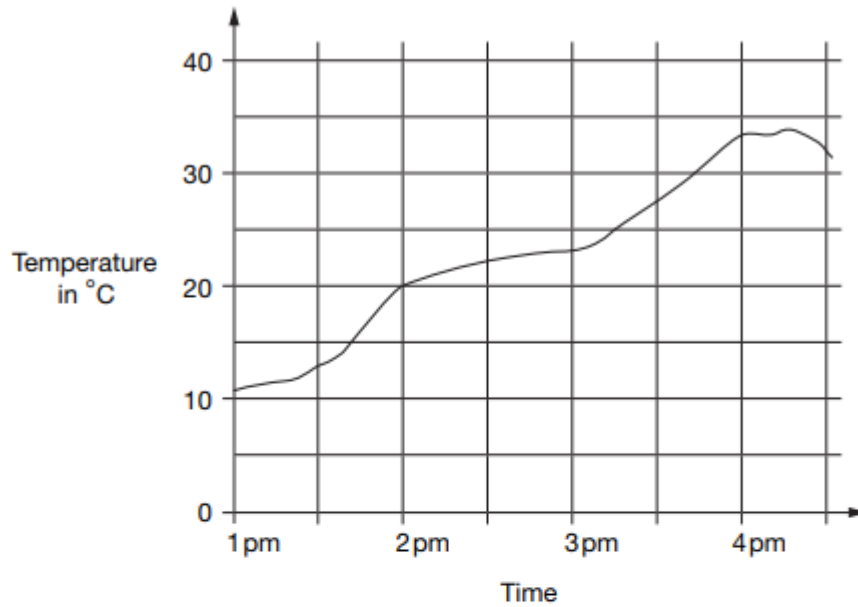more than 40 **chestnut** seeds?

[ ] **weeks**

15b

1 mark

Key Stage 2: 2006 Paper B

1.

18 This graph shows the temperature in a greenhouse.

Use the graph to find the time when the temperature was 25°C.

18a

1 mark

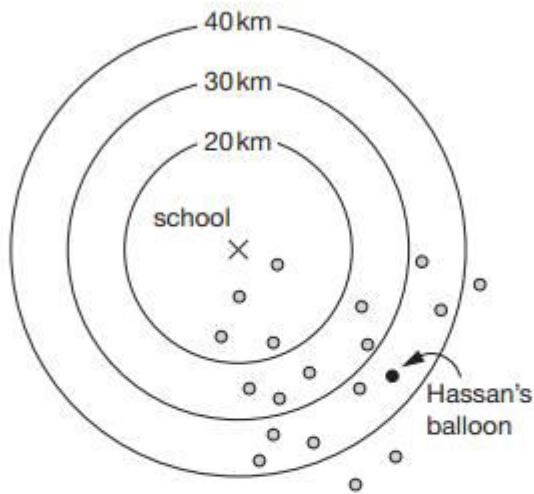Use the graph to find the difference between the temperature at 2pm and the temperature at 4pm.

degrees

18b

1 mark

Key Stage 2: 2007 Paper A

1.

7 Class 6 launched some balloons at a school fete.

This diagram shows how far some of the balloons travelled.

40 km

30 km

20 km

school
×

Hassan's
balloon

How many balloons on the diagram travelled between 20 km and 30 km?

7a

1 mark

Estimate how far Hassan's balloon travelled.
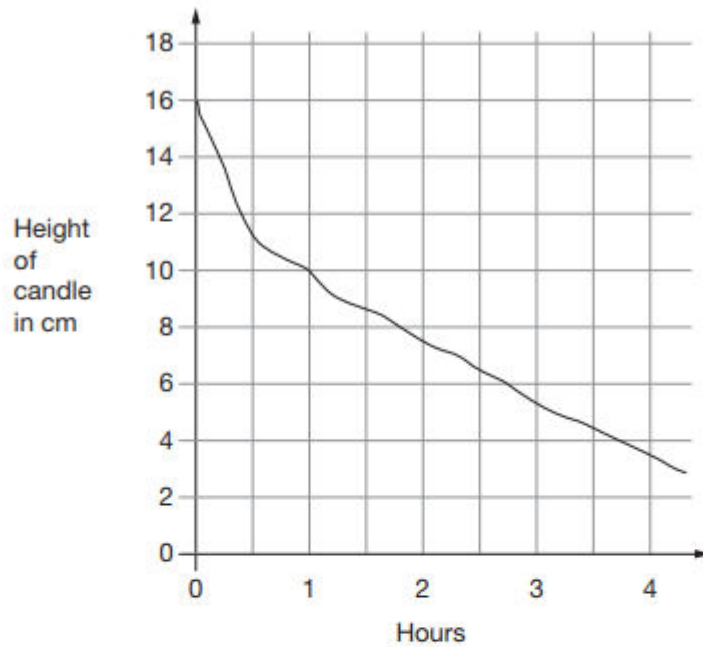
km

7b

1 mark

Key Stage 2: 2007 Paper B

1.

22 This graph shows the height of a candle as it burns.

Look at the graph.

What is the height of the candle after 2 hours?

[ ] cm

22a

1 mark

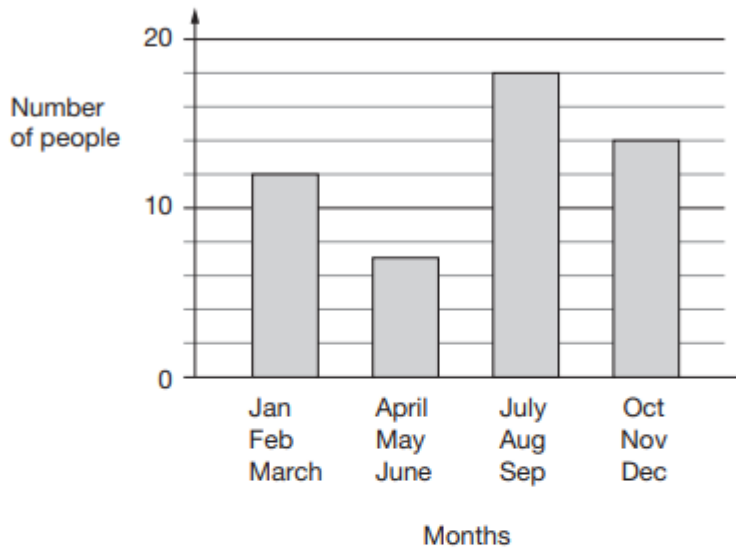How long does the candle take to burn down from 16cm to 4cm?

[ ]

22b

1 mark

Key Stage 2: 2008 Paper A

1.

9 Class 6 did a survey of birthday dates.

This chart shows the number of people with birthdays in each three months of the year.

Months

From the chart, how many people have a birthday before July?

9a

1 mark

Nobody has a birthday in October.

Six people have a birthday in November.
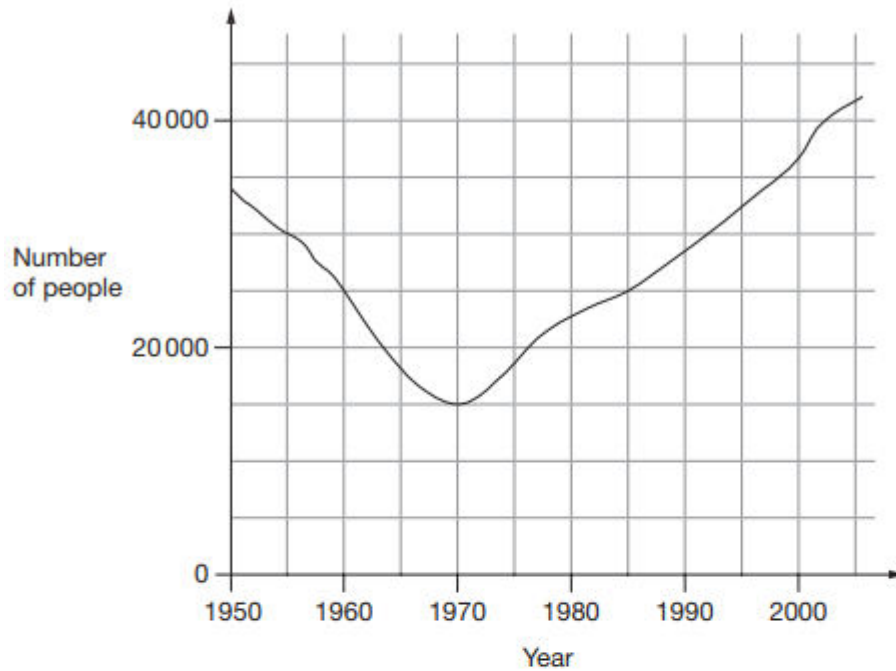
How many people have a birthday in December?

9b

1 mark

Key Stage 2: 2008 Paper A

2.

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

Look at the graph.

How many people lived in the town in 1985?

✏️ [   ]

20a

1 mark

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

✏️ [   ]

20b

1 mark

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

✏️ [   ]

20c

1 mark

Key Stage 2: 2009 Paper B

1.

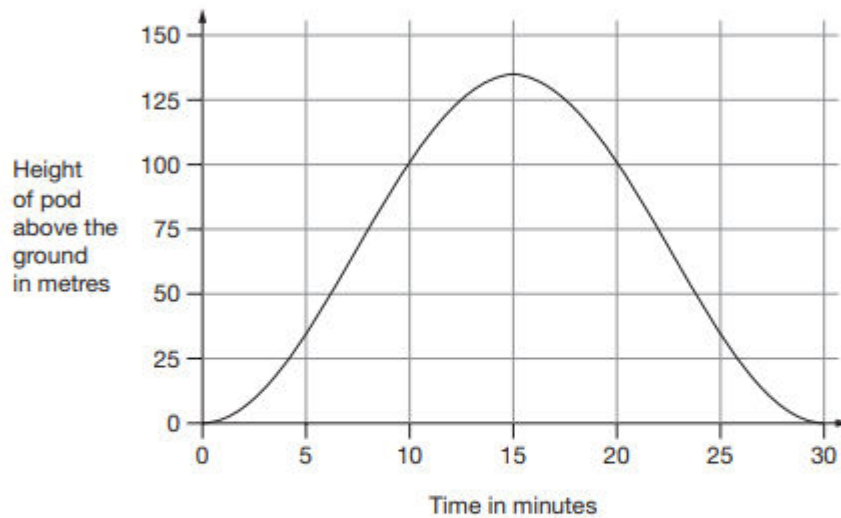**17** The London Eye is a big wheel with pods to carry passengers.

It takes 30 minutes for the wheel to make a complete turn.

This graph shows the height of a pod above the ground as the wheel turns.

Height of pod above the ground in metres

Time in minutes

How long from the start does it take the pod to reach a height of 75 metres?

minutes

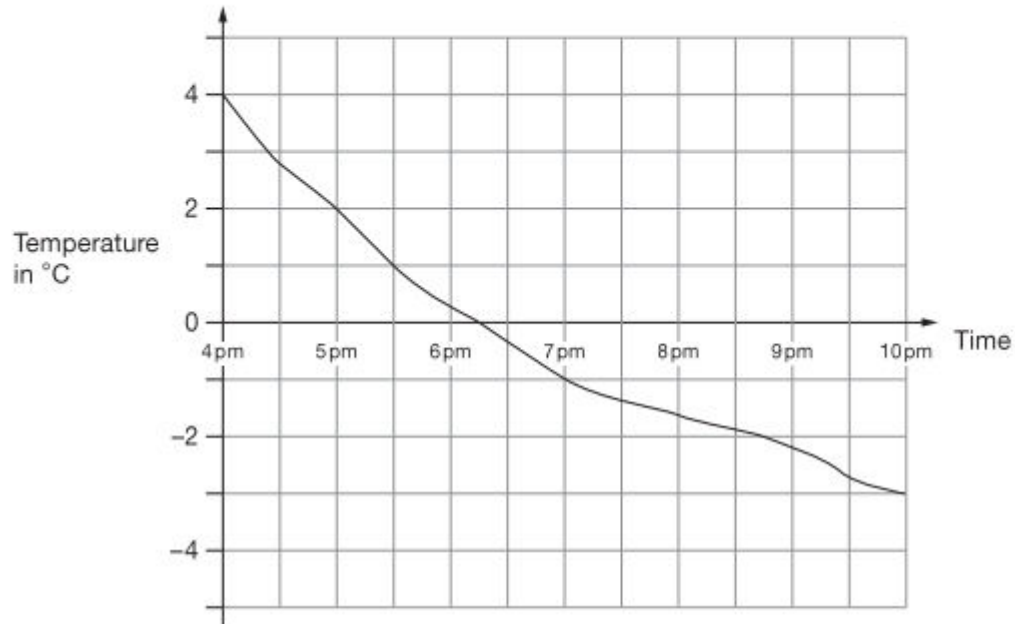How many metres above the ground is the pod at its highest point?

m

1.

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

At what time was the temperature −2°C?

✎ [   ]

17a

1 mark

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

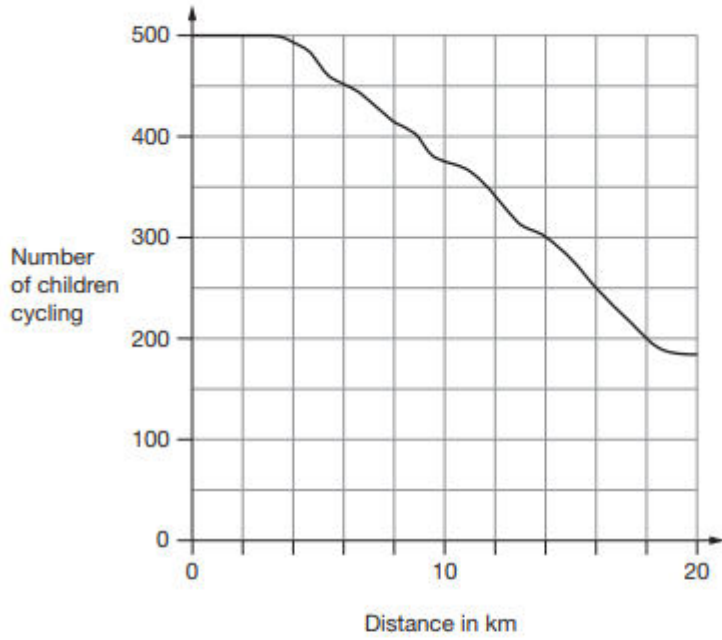✎ [**degrees**]

17b

1 mark

Key Stage 2: 2011 Paper A

1.

19 500 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?

km   19a
                 1 mark

Estimate how many children completed the 20 kilometre cycle ride.
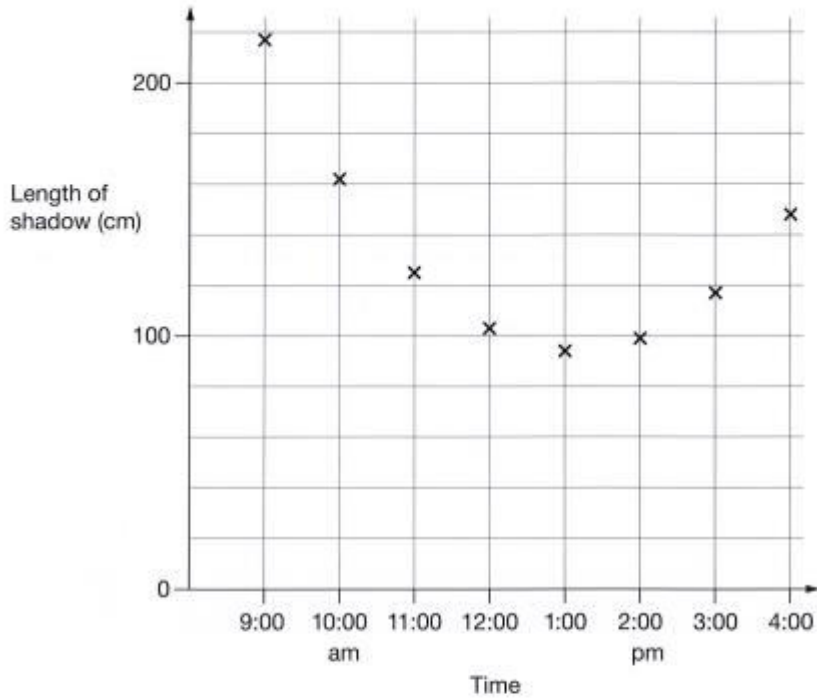
                 19b
                 1 mark

Key Stage 2: 2012 Paper B

1.

19 Kirsty measured the length of her shadow every hour on one sunny day.

She plotted her results on this graph.

Look at the graph.

Estimate the length of Kirsty's shadow at 3:30pm.

| | cm |
| | |

19a

1 mark

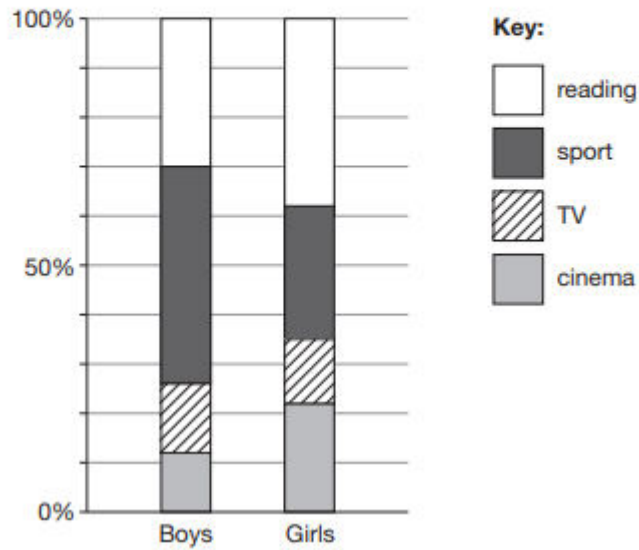Estimate a time when her shadow was 180 centimetres long.

| | : | |

19b

1 mark

Key Stage 2: 2013 Paper B L6

1.

6 Alfie asks some boys and girls about their favourite hobby.

He shows the results on a graph.

Key:

☐ reading

■ sport

▨ TV

▧ cinema

The graph shows that **44%** of boys chose sport.

Estimate the percentage of **girls** who chose sport.
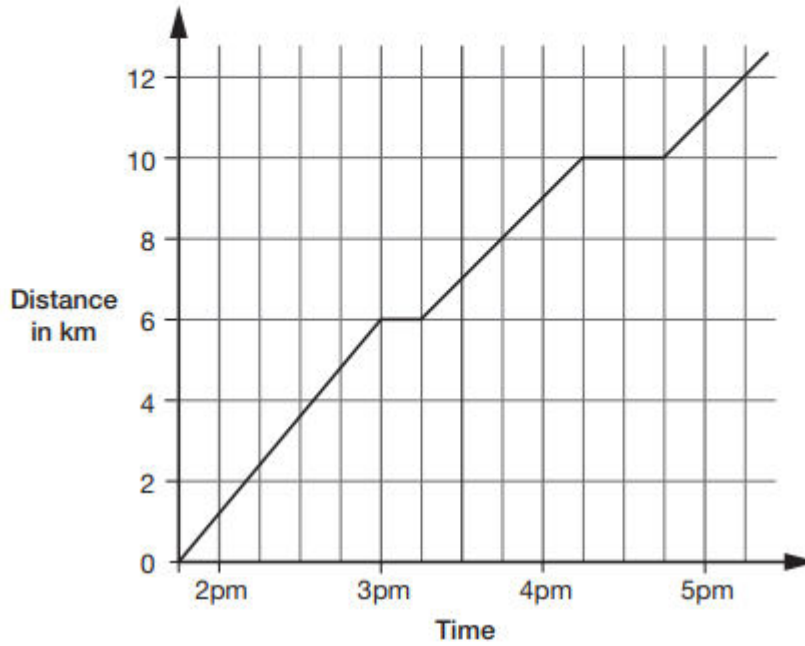
%

1 mark

120 boys chose reading.

Estimate the **number** of boys who chose **cinema**.

boys

1 mark

Key Stage 2: 2013 Paper A

1.

17 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

17a

1 mark

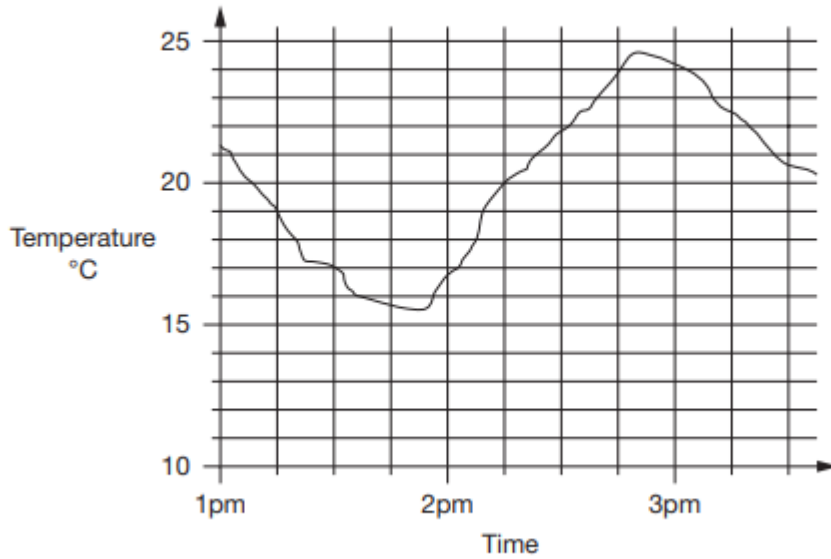At what time did Alfie and Chen start their second break?

17b

1 mark

Key Stage 2: 2014 Paper B

1.

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

Estimate the temperature at 3:15 pm.

[ ] °C

18a

1 mark

Estimate the time when the temperature was highest.

[ ] pm

18b

1 mark

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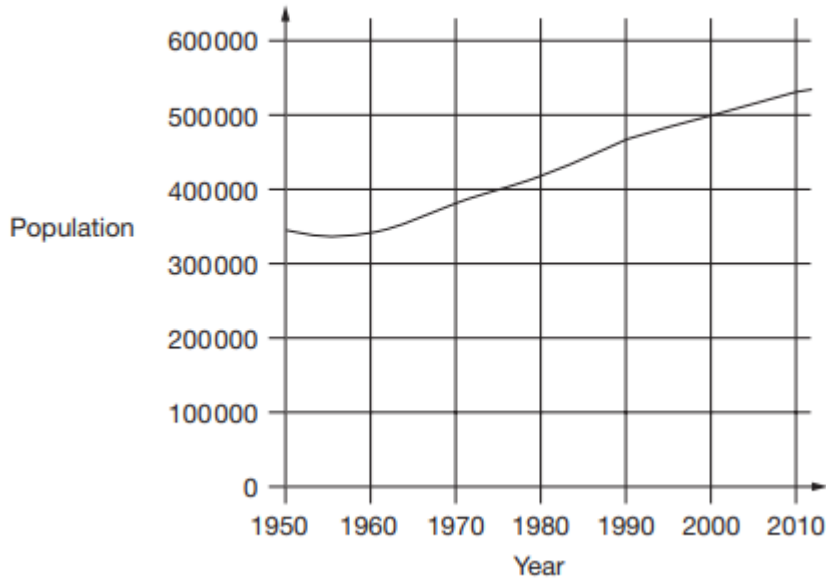Give your answer to the **nearest degree**.

[ ] degrees

18c

1 mark

Key Stage 2: 2015 Paper A

1.

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

Look at the chart.

In which year did the population first reach 400000?

17a

1 mark

How much did the population increase from 1950 to 2000?
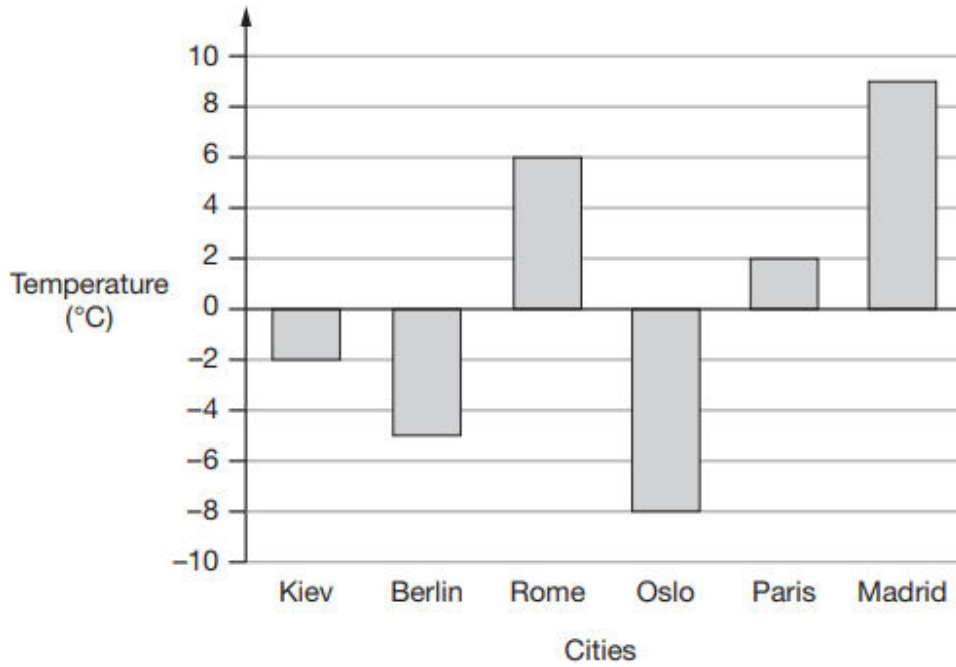
17b

1 mark

What was the population of Cornwall in 2010?

17c

1 mark

1.

3 This graph shows the temperature in six cities on one day in January.

Which city was 4 degrees **warmer** than Kiev?

_____   1 mark

What was the **difference** between the temperature in Oslo and the temperature in Berlin?
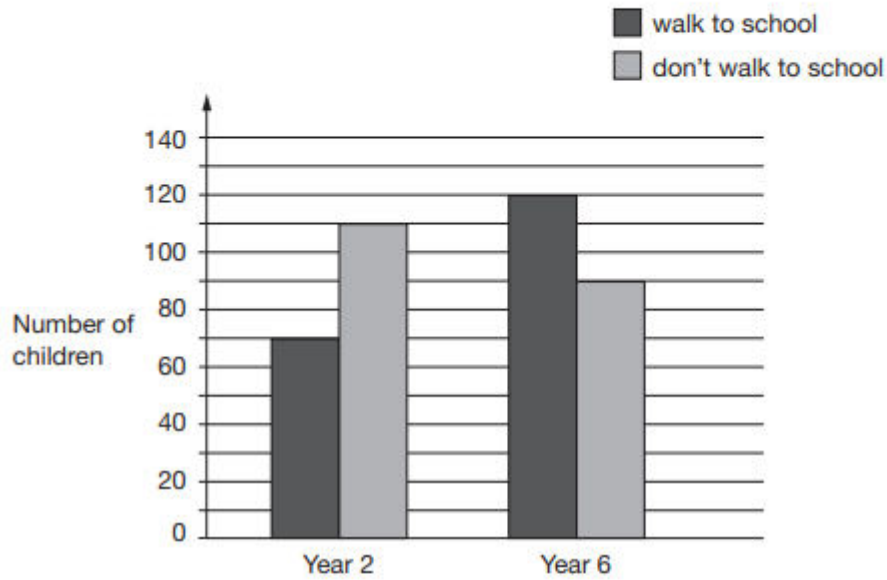
| | °C |

1 mark

1.

1 William asks the children in Year 2 and Year 6 if they walk to school.

This graph shows the results.

Altogether, how many children **don't** walk to school?

1 mark

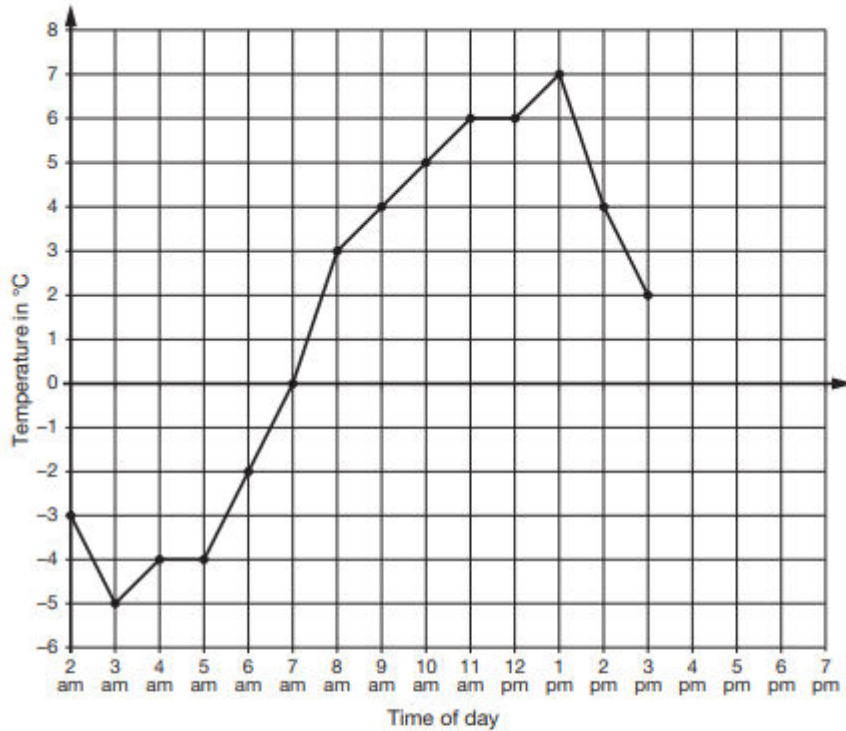How many **more** Year 6 children than Year 2 children walk to school?

1 mark

Key Stage 2: 2017 Paper 3 Reasoning

1.

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

Time of day

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

°C

1 mark

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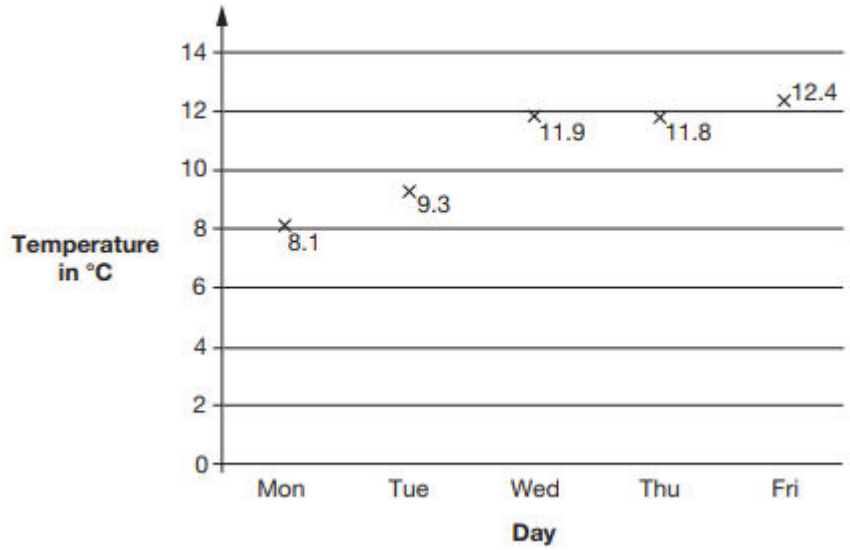
What was the temperature at 6pm?

°C

1 mark

Key Stage 2: 2019 Paper 2 Reasoning

1.

22 This graph shows the maximum temperature for five days.

For what fraction of the five days was the maximum temperature below 10°C?

[   ]

1 mark

What was the **mean** maximum temperature, to one decimal place?

Show your method

[   ] °C

2 marks