1. Here are the temperatures in four cities at midnight and at midday.

	Temperature	
City	**At midnight**	**At midday**
Paris	−4°C	−2°C
Oslo	−13°C	−7°C
Rome	3°C	10°C
Warsaw	−6°C	2°C

At **midnight**, how many degrees colder was Paris than Rome?

degrees

1 mark

Which city was 6 degrees colder at midnight than at midday?

_____

1 mark

2. Dev thinks of a **whole** number.

He multiplies it by 4

He rounds his answer to the nearest 10

The result is 50

Write **all** the possible numbers that Dev could have started with.

_____

2 marks

3. Write the number that is five less than **ten million**.

1 mark

Write the number that is one hundred thousand less than **six million**.

1 mark

4.

Put these houses in order of price starting with the **lowest price**.

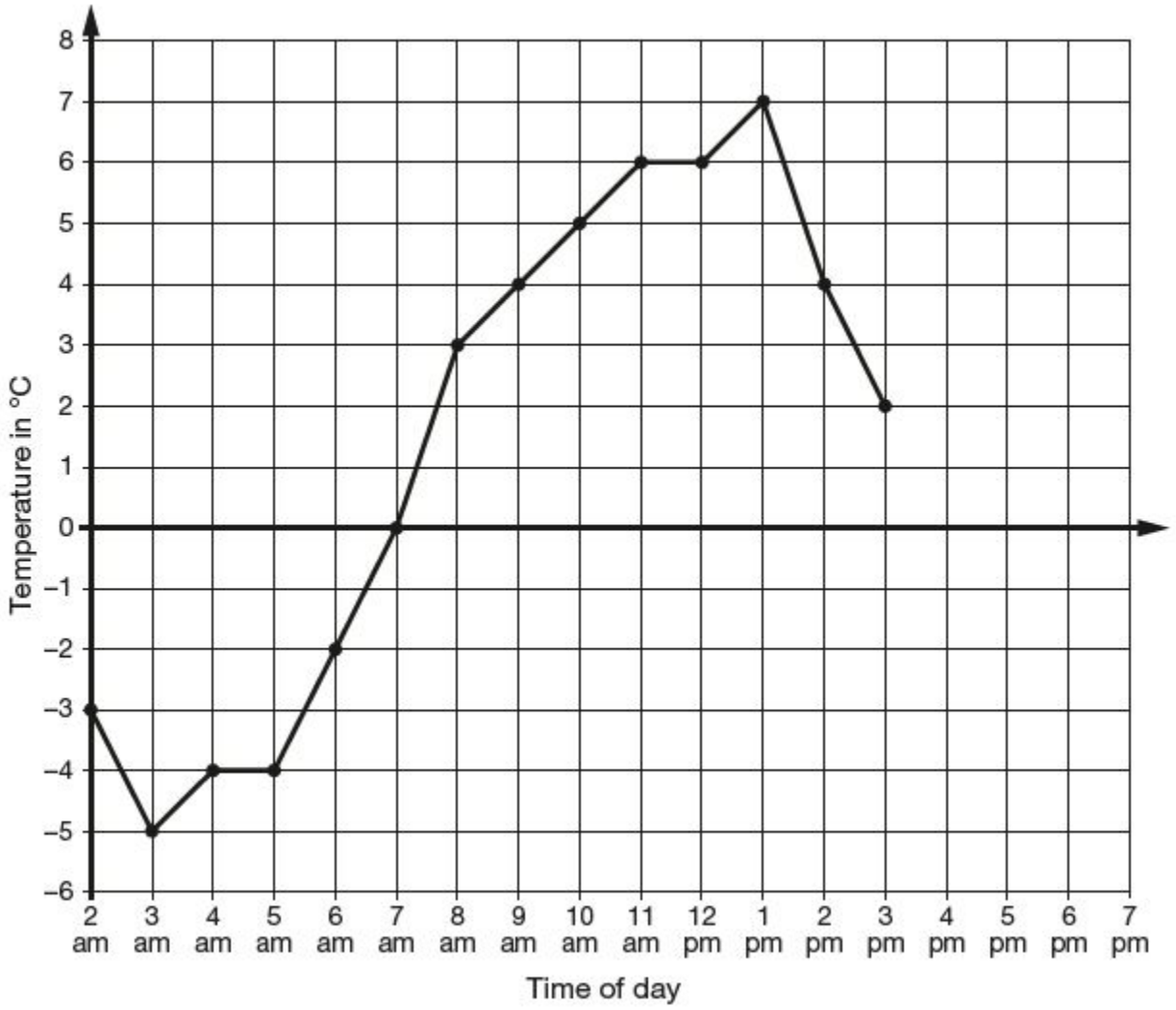
One has been done for you.

_____ **B** _____ _____ _____

lowest

1 mark

5. 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?

°C

1 mark

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

What was the temperature at 6 pm?

°C

1 mark

6. Round **84,516**

to the nearest 10 ☐

to the nearest 100 ☐

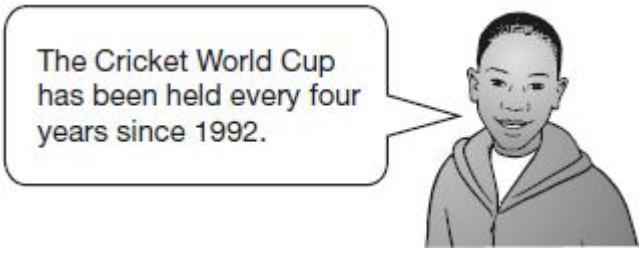
to the nearest 1,000 ☐

2 marks

7. The list below shows the years in which the Cricket World Cup was held since 1992:

1992, 1996, 1999, 2003, 2007, 2011, 2015

Adam says,



Adam is **not** correct.

Explain how you know.

1 mark

8. Order the numbers starting with the **largest**.
Match each number with its order.

1,009,909	1st largest
1,023,065	2nd
1,009,099	3rd
1,230,650	4th smallest

1 mark

9.

3,576,219

Which digit is in the **ten thousands** place?

1 mark

Round 3,576,219 to the **nearest million**.

1 mark

10. Complete the table.

	Round 39,476
to the nearest 10,000	
to the nearest 1,000	
to the nearest 100	

2 marks

Mark schemes

1.

(a) 7

***Do not** accept −7 or 7−*

1

(b) Oslo

Accept unambiguous abbreviations or recognisable misspellings.

1

[2]

2.

Award **TWO** marks for 12 **AND** 13

If the answer is incorrect, award **ONE** mark for:

- only one correct number and no incorrect number

OR

- 12 **AND** 13 **AND** not more than one incorrect number.

*Accept for **ONE** mark an answer of 48 **AND** 52 **AND** no more than one incorrect number.*

Up to 2m

[2]

3.

(a) 9,999,995

1

(b) 5,900,000

1

[2]

4.

Award **ONE** mark for the correct answer as shown:

- **E** B **C** **D** **A**

Accept:

- *£91,500* B *£130,500* *£131,500* *£135,300*

[1]

5.

(a) 7

1

***Do not** accept −7 or 7−*

(b) −2

1

***Do not** accept 2−*

[2]

6.

Award **TWO** marks for three boxes completed correctly as shown:

to the nearest 10	84,520
to the nearest 100	84,500
to the nearest 1,000	85,000

If the answer is incorrect, award **ONE** mark for two boxes completed correctly.

Up to 2m

[2]

7.

Explanation that recognises that the sequence does not always increase by four, with clear reference to the data, e.g.

- The difference between 1996 and 1999 is three years, not four so it is not always every four years
- It would be 2000 if it was every 4 years
- It should have ended in 2016

OR

Explanation that demonstrates that the sequence does not always increase by 4, but does not reference specific years from the data, e.g.

- The cricket world cup was sometimes 3 years apart instead of 4 years apart
- Not all of the years have 4 years difference between.

***Do not** accept vague or incomplete explanations, e.g.*

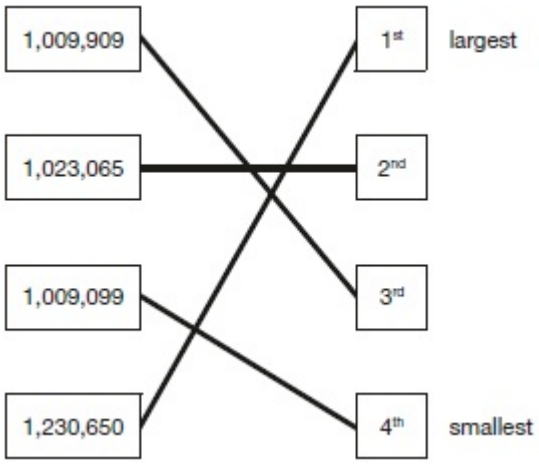
- *It does not always increase by four*
- *It should be 2000*
- *The difference can be 3, 4 or 5 years at different times.*

***Do not** accept explanations which include incorrect mathematics or incorrect information that is relevant to the explanation, e.g.*

- *1992 + 4 = 1996 + 3 = 1999*

[1]

8. Award **ONE** mark for the four numbers matched correctly, as shown:



Lines need not touch the numbers and ordinals, provided the intention is clear

***Do not** accept any number which has been matched to more than **ONE** ordinal.*

[1]

9. (a) 7

***Do not** accept 70,000 or 70 thousands.*

1m

(b) 4,000,000

Accept 4 million or four million

***Do not** the answer 4*

1m

[2]

10. Award **TWO** marks for the correct completion of the three numbers in the table, as shown:

	Round 39,476
to the nearest 10,000	**40,000**
to the nearest 1,000	**39,000**
to the nearest 100	**39,500**

If the answer is incorrect, award **ONE** mark for **any two** of the numbers rounded correctly.

***Do not** accept 9,000 or 500 for the second and third entries.*

Up to 2m

[2]