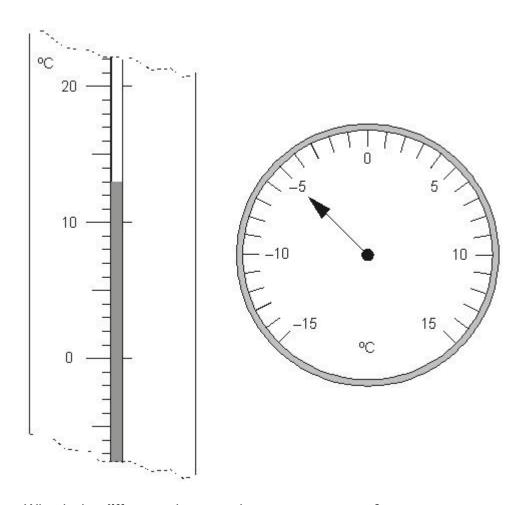
Q1.

Here are two thermometers.

They show two different temperatures.



What is the **difference** between the two temperatures?

degrees

1 mark

Q2.

Mr Tyler is 1.97 m tall. His young daughter is 83 cm tall.

What is the **difference** in their heights, **to the nearest 10 cm**?



1 mark

Q3.

Write the answers to these calculations in Roman numerals.

One has been done for you.

$$V + VI = XI$$

2 marks

Q4.

Look at this number.

What is the value of the digit 6 in the number?

Circle the correct answer.

six thousand six hundred thousand

sixty thousand six million

1 mark

Q5.

Circle the largest number.

5,055,555 5,555,055 555,555 5,055,055

1 mark

Q6.

Circle the largest number.

4,944,444 4,444,944 4,994,449 444,444 4,949,444

1 mark

_	_
7	7
IJ	_

Look at these numbers written in Roman numerals.

One is not written correctly.

Put a cross (X) on it.

MMCM MCMM MMMC MMCC MCCC

1 mark

Q8.

Write the missing numbers in the sequence.



2 marks

Q9.

Write the three missing numbers in the empty boxes.

	+10			
+10,000	45,170	45,180	45,190	
1	55,170			
	65,170			
*				

2 marks

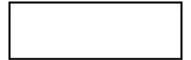
Q10.

Look at these numbers written in Roman numerals.

MCMVII MMCD MDCCXLIII MMDX

Circle the largest number.

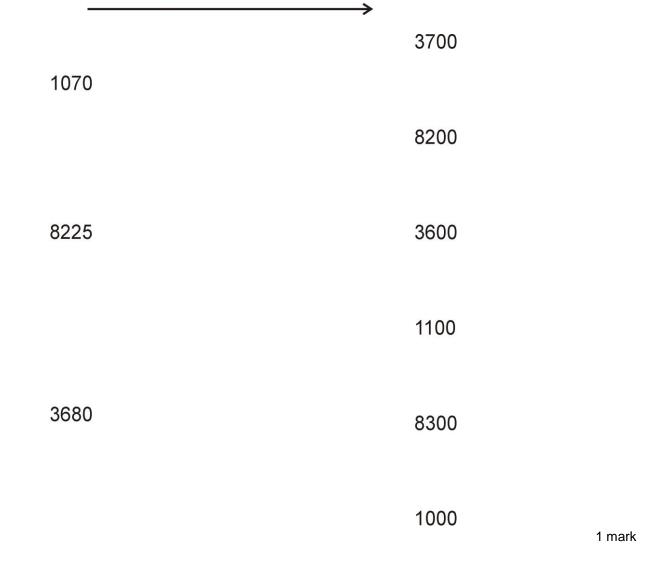
What is the value of the smallest number?



2 marks

Q11.

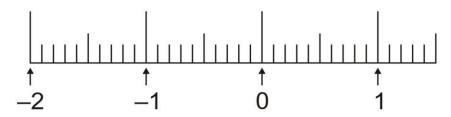
Draw arrows.



Q12.

Mark with arrows the points -1.5 and 0.45 on the number line.

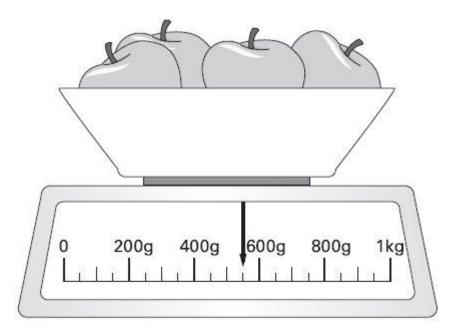
rounded to the nearest 100 is



2 marks

Q13.

Here are some apples.

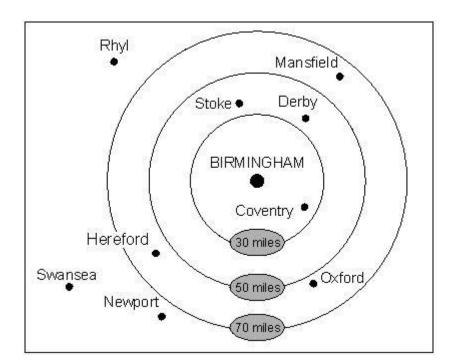


What is the total weight of these apples?

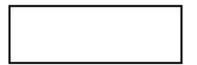


Q14.

This diagram shows the distances of different towns from Birmingham.



Write the name of a town which is between 30 and 50 miles from Birmingham.



1 mark

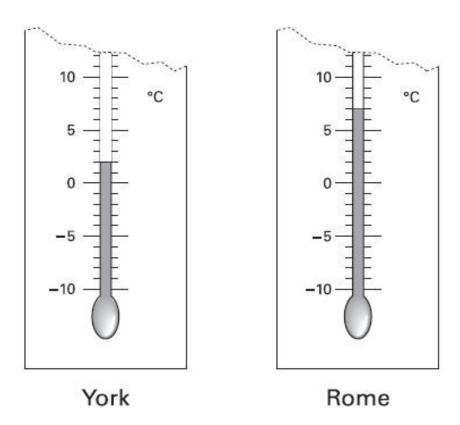
Use the diagram to estimate the distance in miles from Birmingham to Mansfield.

miles

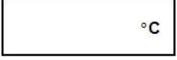
1 mark

Q15.

These are the temperatures in York and Rome on a day in winter.



How may degrees **colder** is it in York than in **Rome**?



1 mark

On another day, the temperature in York is 4°C

Rome is 7 degrees colder than York.

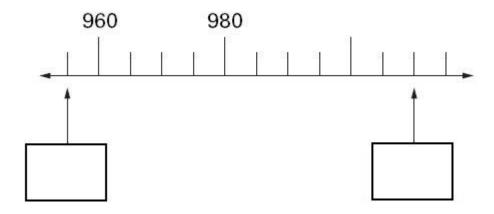
What is the temperature in Rome?

1 mark

Q16.

Here is part of a number line.

Write the two missing numbers in the boxes.



2 marks

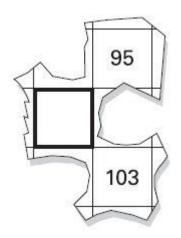
Q17.

Here is part of a number grid.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21_	22	_23	21

Here is another part of the same grid.

Write in the missing number.



1 mark

Q18.

The numbers in this sequence increase by 3 each time.

3

6

9

12

The numbers in this sequence increase by 5 each time.

5

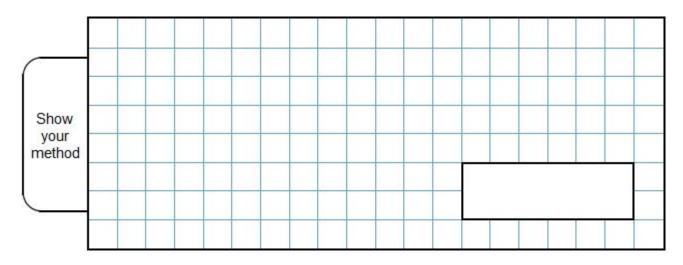
10

15

20

Both sequences continue.

Write a number greater than 100 which will be in both sequences.



2 marks

Q19.

Complete this table to show the numbers rounded to the nearest 100.

One has been done for you.

rounded to the

	nearest hundred
316	300
3162	
31628	
316281	

2 marks

Q20.

Complete the table.

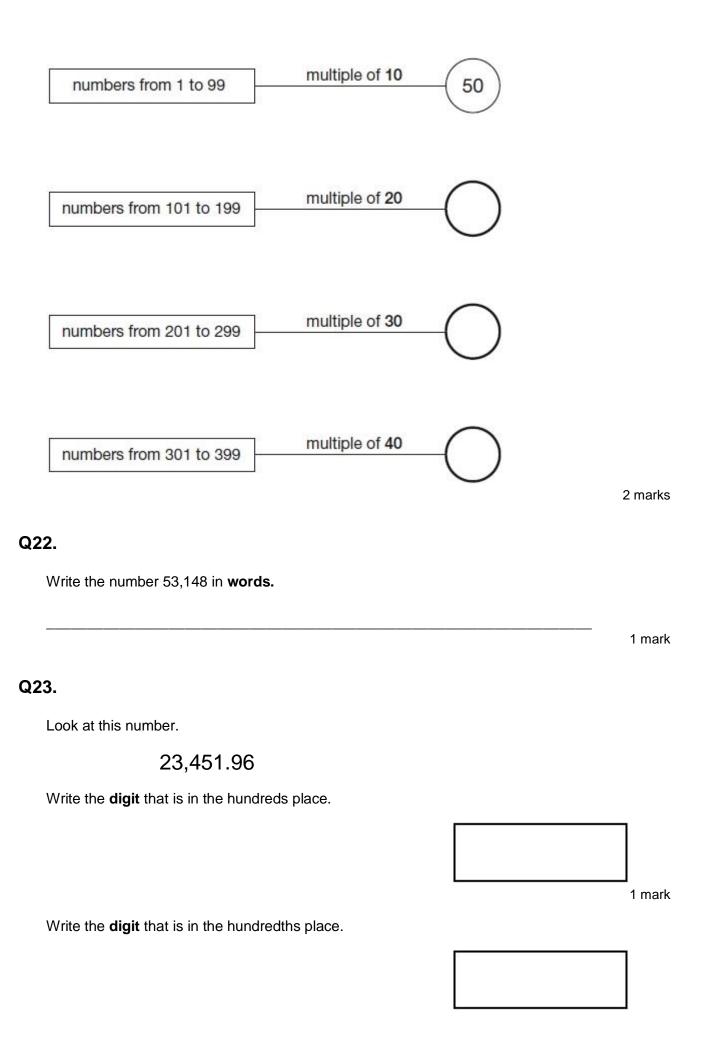
	Round 39,476
to the nearest 10,000	
to the nearest 1,000	
to the nearest 100	

2 marks

Q21.

In the circles, write a multiple that belongs to each set.

One has been done for you.



Q24.

3,576,219

Which digit is in the ten thousands place?



1 mark

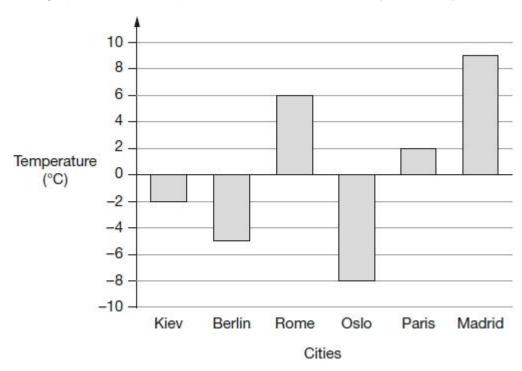
Round 3,576,219 to the **nearest million**.



1 mark

Q25.

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



Which city was 4 degrees warmer than Kiev?

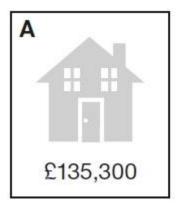
			1 mark

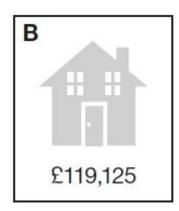
What was the difference between the temperature in Oslo and the temperature in Berlin?

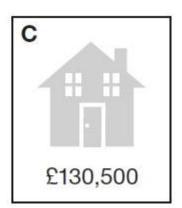
°C

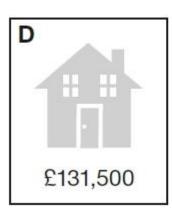
1 mark

Q26.











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

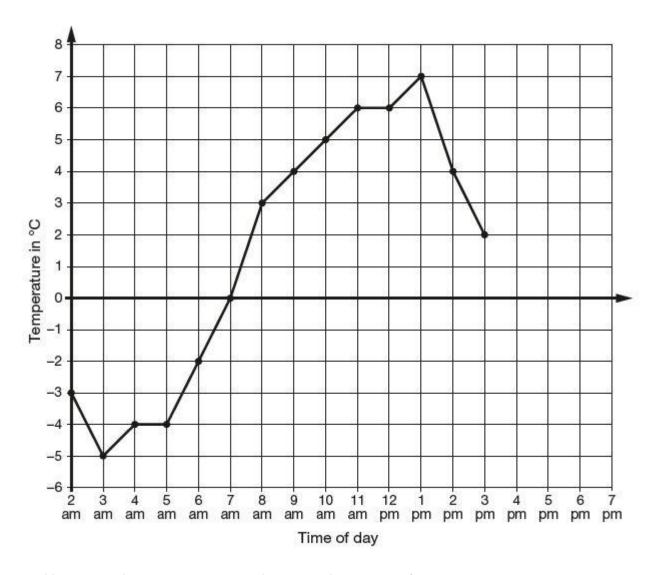
One has been done for you.

lowest B

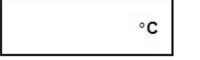
1 mark

Q27.

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?

°C

1 mark

Q28.

The numbers in this sequence **decrease** by the same amount each time.

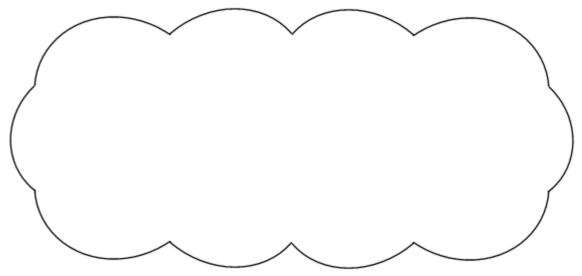
303,604 302,604 301,604 300,604 ...

What is the next number in the sequence?	
	1 mark
Q29.	
At the end of a film, the year is given in Roman numerals.	
The End MMVI	
Write the year MMVI in figures .	
	1 mark
Q30.	
Round 84,516	
to the nearest 10	
to the nearest 100	
to the nearest 1,000	2 marks
Q31. The list below shows the warra in which the Cricket World Cup was held since 1003:	
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,	
, want oayo,	

The Cricket World Cup has been held every four years since 1992.

Adam is **not** correct.

Explain how you know.



1 mark

Q32.

A car costs more than £8600 but less than £9100

Tick (\checkmark) the prices that the car could cost.

£8569	
£9090	
£9130	
£8999	

1 mark

Mark schemes

Q1. 18 Accept -18 [1] Q2. 1. 1 m or 110 cm [1] Q3. LIV LXVI [2] Q4. six hundred thousand indicated [1] Q5. 5,555,055 indicated [1] Q6. 4,994,449 indicated [1] Q7. Accept other clear indication [1] **Q8.** 466,050

[2]

1

Q9.

Award **TWO** marks for numbers placed correctly, as shown.

45,170	45,180	45,190	45,200
55,170			
65,170		65,190	
75,170			

Award **ONE** mark for any two numbers placed correctly.

[2]

Q10.

MMDX indicated

Do not accept MDCCXLIII

1

1

1743

[2]

Q11.

 $1070 \rightarrow 1100$

 $8225 \rightarrow 8200$

 $3680 \to 3700$

All correct for 1 mark.

[1]

Q12.

The gradation corresponding to -1.5 correctly indicated on the number line

1

It is not necessary for the point to be labelled –1.5

It is not necessary for the point to be marked with an

arrow.

A point corresponding to 0.45 correctly indicated on the number line

1

It is not necessary for the point to be labelled 0.45

Accept any point marked that is clearly between the gradations for 0.4 and 0.5

It is not necessary for the point to be marked with an arrow.

[2]

Q13.

550

Accept 0.5 kg.

Q14.

(a) Derby OR Stoke

Accept recognisable misspellings

OR unambiguous indications on the diagram.

(b) Answer in the range 60 to 65 inclusive.

[2]

1

[1]

Q15.

(a) 5

1

(b) -3 **OR** minus 3

Accept '3 degrees below zero' or similar **OR** –3' written on either thermometer.

Do not accept '3–' **OR** a mark on the thermometers such as a cross, unless the numerical answer is written.

[2]

Q16.

(a) 955 in first box.

1

1

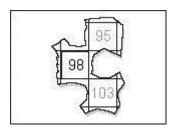
1

(b) 1010 in second box.

[2]

Q17.

Chart completed as shown:



[1]

Q18.

Award TWO marks for a multiple of 15 which is greater than 100, eg

105 OR 120 OR 135 OR 150 OR 300

Accept more than one answer if all are correct.

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg:

Accept for **ONE** mark 30, 45, 60, 75 **OR** 90

• 90 93 96 99 102 105 108 ... 90 95 100 105 110 115 ... ← Not spotting matching number (105)

• 90 93 96 98 101 104 107 (110) ... 90 95 100 105 (110) 115 ... ← One step size incorrect (96 to 98)

• 15 30 45 60 75 80 95 110 125 ← One step size incorrect (75 to 80)

• 3 × 5 × 20 OR 15 × 10

← Multiple greater than 100 but not calculated

Answer need not be obtained for the award of **ONE** mark.

Up to 2

[2]

Q19.

Award **TWO** marks for three numbers correct as shown:

	rounded to the nearest hundred
316	300
3162	3200
31628	31600
316281	316300

If the answer is incorrect, award **ONE** mark for two numbers correct.

Up to 2

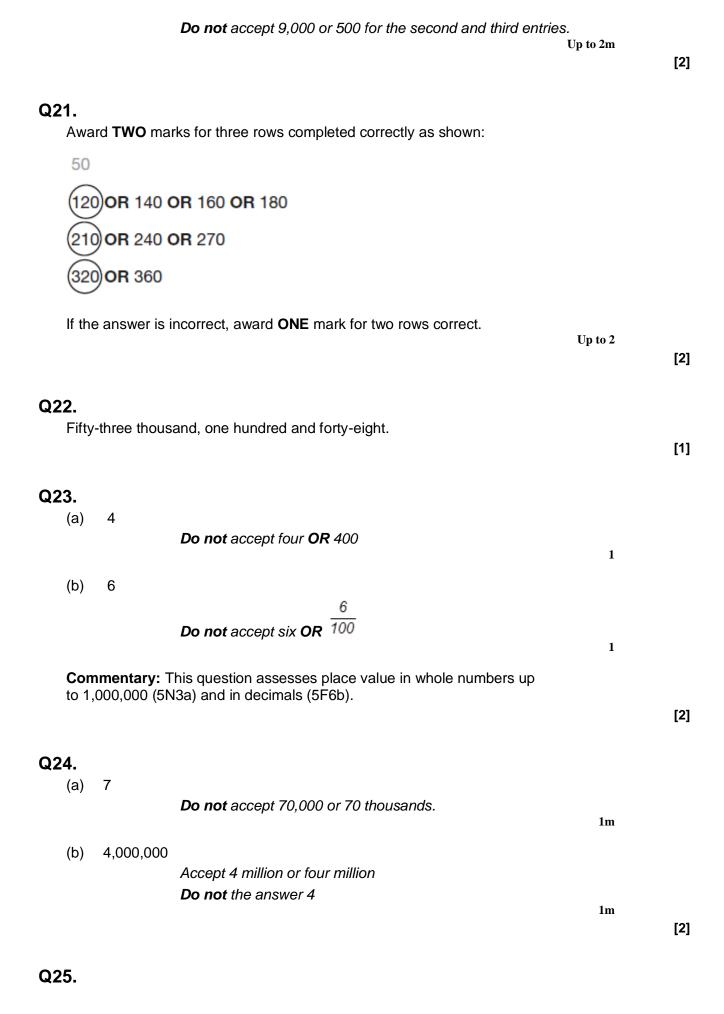
[2]

Q20.

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.



	(a)	Paris		1	
	(b)	3	Do not accept −3.	1	[2]
Q2	26.				
	Awaı	rd ONE ma	rk for the correct answer as shown:		
	· <u>E</u>	<u>B</u> <u>C</u>	<u>D</u> <u>A</u>		
			Accept: • £91,500 B £130,500 £131,500 £135,300		[1]
Q2	27.				
	(a)	7		1	
			Do not accept -7 or 7-		
	(b)	-2		1	
			Do not accept 2-		[2]
Q2	28.				
	299,0	604			[1]
Q2	29.				
	2006	;			
			Do not accept 'two thousand and six' in words.		[1]
Q3	80.				

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]

Q31.

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]

Q32.

Boxes completed as shown:

£ 8569
£ 9090
£ 9130

£ 8999



Both answers must be correct for the award of the mark. Accept alternative unambiguous indications, such as 'Yes'. Ignore crosses or 'No' in the other boxes, provided it is clear that the correct two prices have been chosen.

[1]