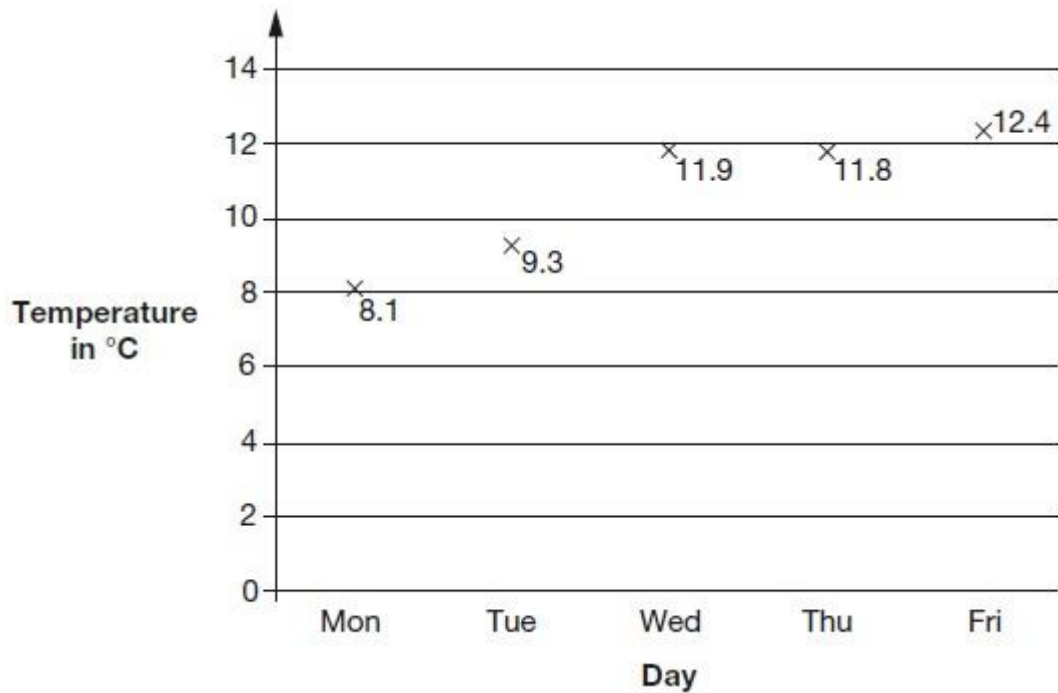


Q1.

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

Q2.

This weather chart shows the highest and lowest temperatures in a town on five days in March.

	Temperature °C	
	highest	lowest
Monday	+7	0
Tuesday	+7	−2
Wednesday	+8	−2
Thursday	+9	+1
Friday	+4	−5

Which day has the greatest difference between the highest and the lowest temperatures?

_____ 1 mark

What is the difference between the lowest temperatures on Thursday and Friday?

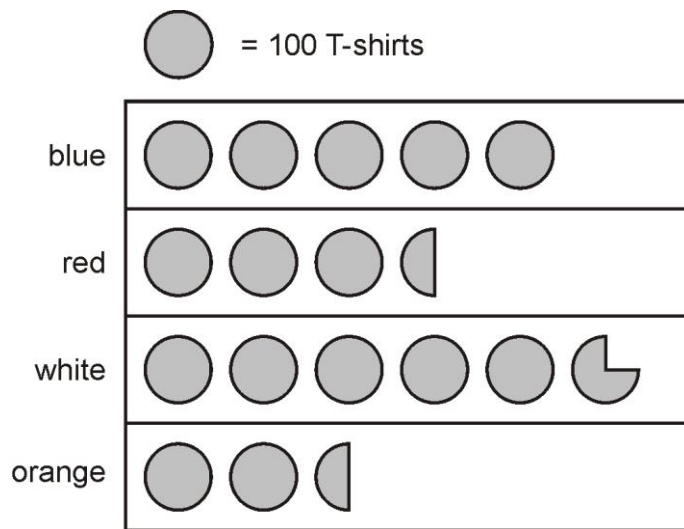
degrees

1 mark

Q3.

A shop sells T-shirts.

This chart shows how many T-shirts were sold in a month.



Write the colours of the T-shirts that sold **more than 400** in the month.

_____ 1 mark

How many red T-shirts and orange T-shirts were sold **altogether**?

_____ 1 mark

How many **more** white than blue T-shirts were sold?

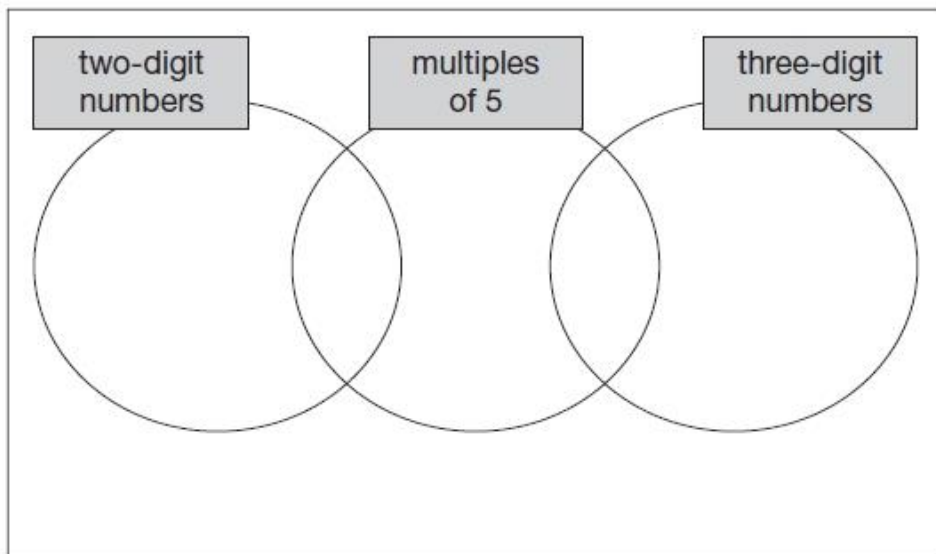
_____ 1 mark

Q4.

Here is a diagram for sorting numbers.

Write **each** number in its correct place on the diagram.

2 20 201 2000



2 marks

Q5.

There are 90 children in Year 6 at Woodland Junior School.

They are split into three classes.

Class	Number in class
6M	27
6P	33
6T	30

Each child chose football **or** netball **or** hockey.

In **6M**, 13 children chose hockey.

The rest of the class were split equally between football and netball.

In **6P**, 9 children chose netball.

Twice as many children chose football as chose hockey.

In **6T**, the ratio of children who chose football to netball to hockey was 1:2:3

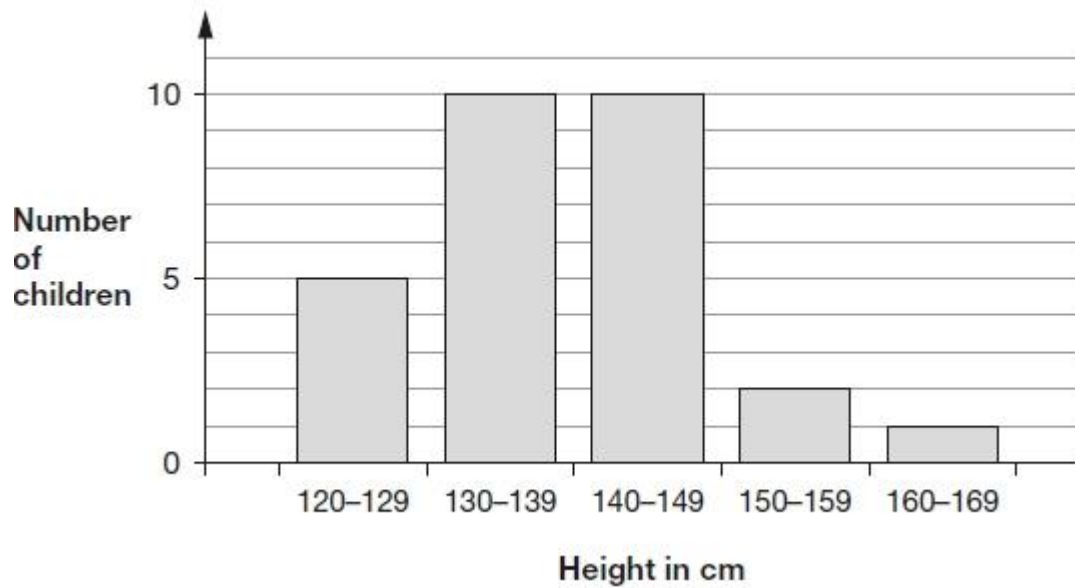
Complete this table.

Class	Number in class	Football	Netball	Hockey
6M	27			13
6P	33		9	
6T	30			

2 marks

Q6.

The graph shows the heights of 28 children in Alfie's class, to the nearest centimetre.



Alfie is 153 cm tall.

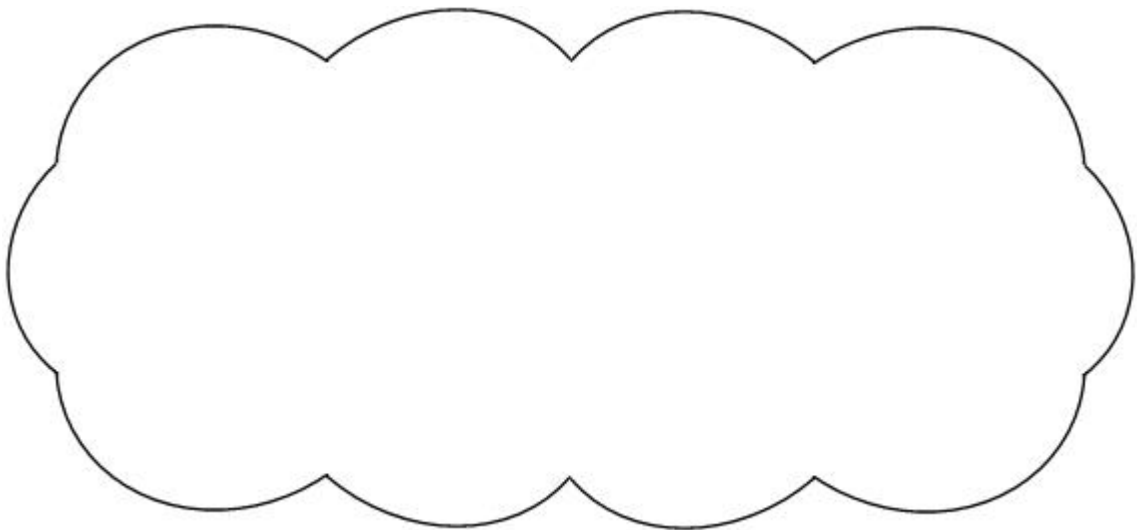
He says,

'Only one person in my class is taller than I am.'

Emma says,

'You can't tell this from the graph.'

Explain why Emma is correct.



1 mark

Q7.

Here is a diagram for sorting numbers.

Write **one number** in each box.

One is done for you.

	multiple of 5	not a multiple of 5
multiple of 3	30	
not a multiple of 3		

2 marks

Q8.

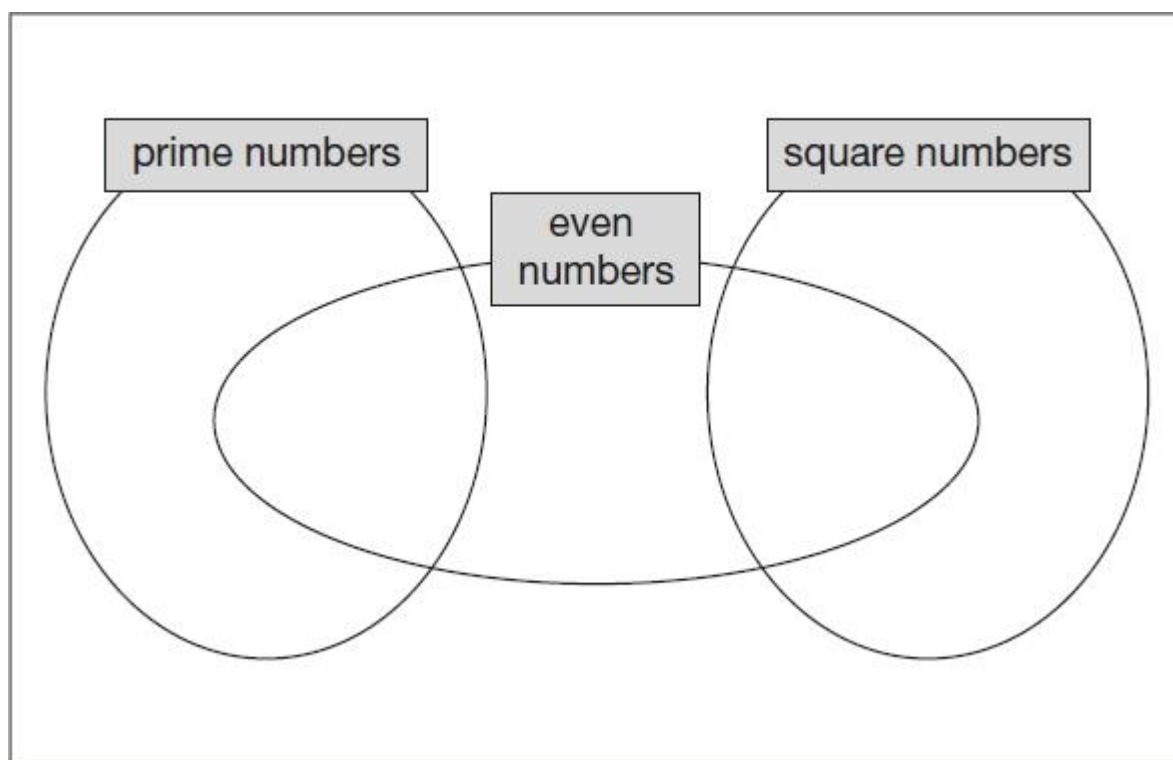
Write each number in its correct place on the diagram.

16

17

18

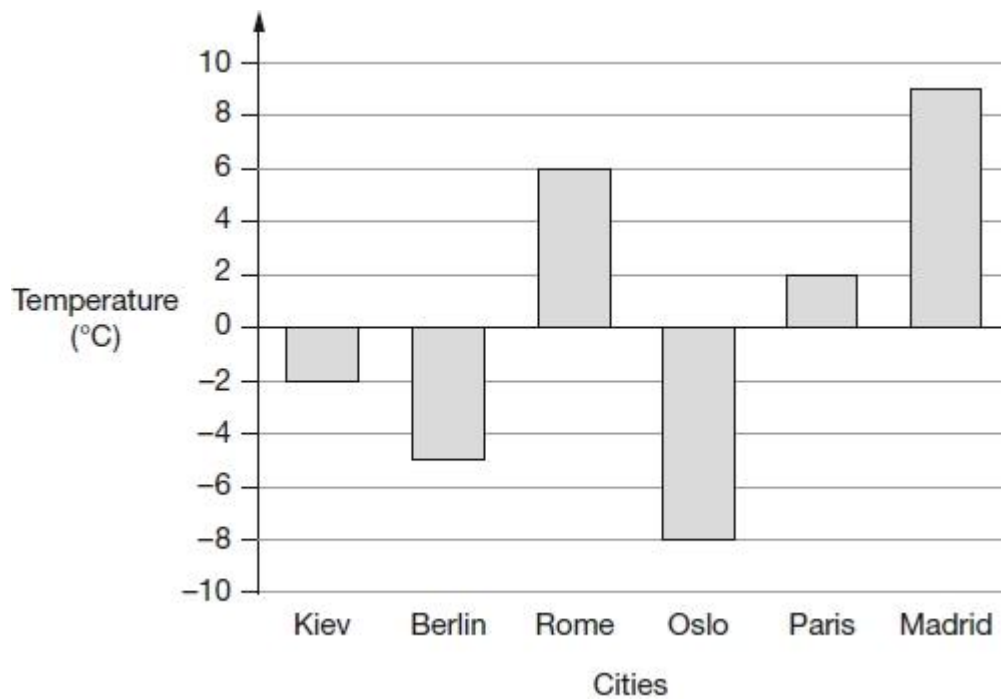
19



2 marks

Q9.

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



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

1 mark

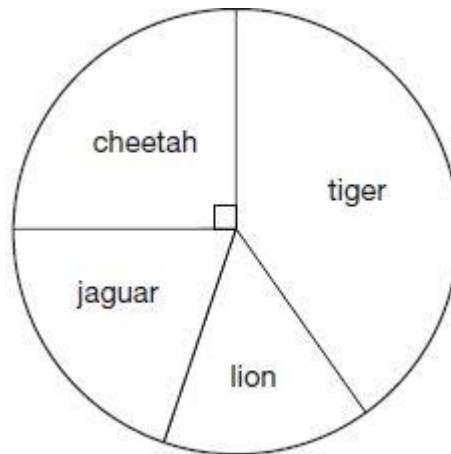
What was the **difference** between the temperature in Oslo and the temperature in Berlin?

1 mark

Q10.

This chart shows the number of different types of big cat in a zoo.

There are **20** big cats in the zoo altogether.



Here are some statements about the chart.

Tick the statements that are **true**.

- | | |
|--|--------------------------|
| There are more cheetahs than jaguars. | ☐ |
| The total number of lions and tigers is 10 | ☐ |
| One-quarter of the big cats are cheetahs. | ☐ |
| There are more than 5 jaguars. | ☐ |

2 marks

Q11.

This table shows the number of people living in various towns in England.

Town	Population
Bedford	82,448
Carlton	48,493
Dover	34,087
Formby	24,478
Telford	166,640

What is the **total** of the numbers of people living in Formby and in Telford?

1 mark

What is the **difference** between the numbers of people living in Bedford and in Dover?

1 mark

Q12.

Children estimated the number of beans in a jar.

These were the estimates of five children.

Amir	1,310
Olivia	1,220
Emma	1,400
John	1,290
Chen	1,460

The exact number of beans in the jar was **1,380**

Whose estimate was **closest** to the exact number?

1 mark

Whose estimate was **furthest** from the exact number?

Mark schemes

Q1.

(a) $\frac{2}{5}$

Accept equivalent fractions and decimals e.g. $\frac{4}{10}$ and 0.4

1

(b) Award **TWO** marks for the correct answer of 10.7

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $8.1 + 9.3 + 11.9 + 11.8 + 12.4 = 53.5$
 $53.5 \div 5$

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

Any correct rounding or truncating does not negate an appropriate method.

Any value which does not result from correct rounding or truncating implies an additional step not shown.

Up to 2m

[3]

Q2.

Wednesday

Accept unambiguous abbreviations or recognisable misspellings.

1

6

Do not accept -6

1

[2]

Q3.

(a) blue **AND** white

Colours may be given in either order.

Accept unambiguous abbreviations or recognisable misspellings.

1

(b) 600

1

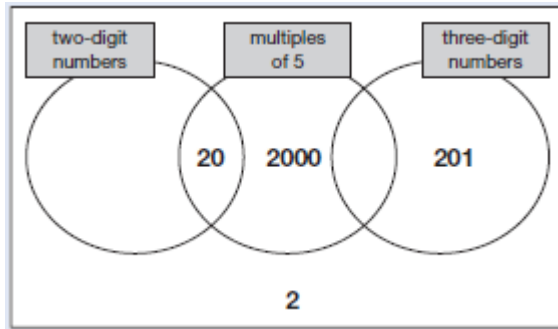
(c) 75

1

[3]

Q4.

Award **TWO** marks for all four numbers correctly placed as shown:



If the answer is incorrect, award **ONE** mark for three numbers correctly placed.

Do not accept numbers written in more than one region.

Accept alternative unambiguous indications, eg lines drawn from the numbers to the appropriate regions of the diagram.

Up to 2m

[2]

Q5.

Completes all 7 entries in the table correctly, ie:

	No.	Football	Netball	Hockey
6M	27	7	7	13
6P	33	16	9	8
6T	30	5	10	15

2

or

Completes the first two rows (6M & 6P) correctly

OR

Completes the third row (6T) correctly

1

[2]

Q6.

Gives a correct explanation which demonstrates how the graph shows two children could be taller than Alfie, eg:

- One person from the class is 160-169cm. But someone as well as this person could be taller than Alfie. 2 people range from 150-159 cm, the other person could be 154, 155, etc

Minimally acceptable explanation, eg:

- It could be 1.64, 1.56, Alfie
 - It depends on how tall the other person in his height group is
 - There could be someone between 150-159 cm who is taller than Alfie
- ! Condone incorrect use of boundary values, eg:
- One child is in the range 160 cm–169 cm.
Don't know how tall the other child between 150 cm and 159 cm is
- Do not accept** incomplete or incorrect explanation, eg:
- There is 1 child in the range 150 cm-159 cm taller than Alfie
 - There could be two children taller than Alfie

[1]

Q7.

Award **TWO** marks for three boxes completed correctly, e.g:

	multiple of 5	not a multiple of 5
multiple of 3	30	3, 6, 9 etc
not a multiple of 3	5, 10, 20 etc	1, 2, 4, 7 etc

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

Accept more than one correct multiple in any box.

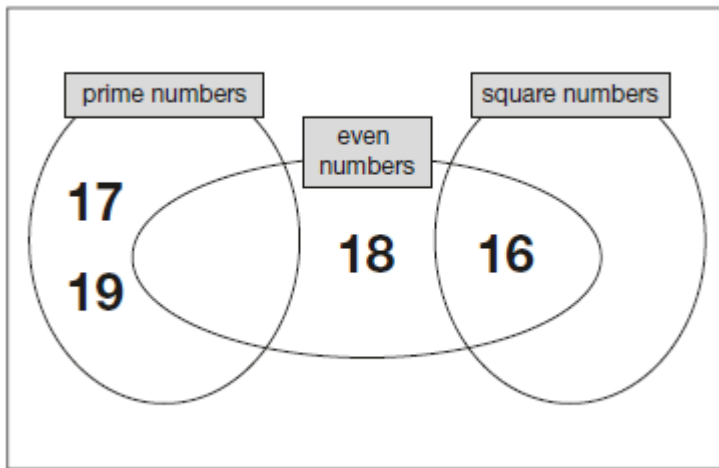
Do not accept any box containing a correct multiple and an incorrect number.

Up to 2

[2]

Q8.

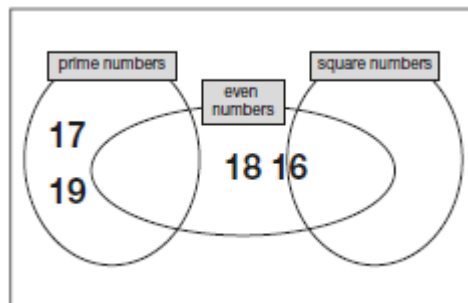
Award **TWO** marks for all four numbers placed correctly as shown:



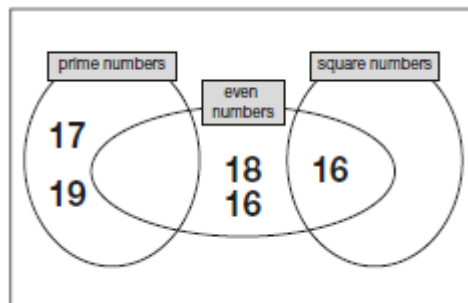
If the answer is incorrect, award **ONE** mark for three numbers placed correctly.

Accept alternative unambiguous indications, e.g. lines drawn from the numbers to the appropriate regions of the diagram.

Do not accept numbers written in more than one region, e.g.



OR



Up to 2m

[2]

Q9.

(a) Paris

1

(b) 3

Do not accept -3.

1

[2]

Q10.

Award **TWO** marks for only two correct boxes ticked, as shown:

There are more cheetahs than jaguars.	☒
The total number of lions and tigers is 10	☐
One-quarter of the big cats are cheetahs.	☒
There are more than 5 jaguars.	☐

Award **ONE** mark for:

- only one correct box ticked and no incorrect boxes ticked

OR

- two correct boxes ticked and one incorrect box ticked.

Accept alternative unambiguous positive indications, e.g. Y.

Up to 2 marks

[2]

Q11.

- | | | |
|-----|---------|---|
| (a) | 191,118 | 1 |
| (b) | 48,361 | 1 |

[2]

Q12.

- (a) Emma

Accept unambiguous abbreviations, e.g. E, or recognisable misspellings.

Accept 1,400 for the award of the mark.

1

- (b) Olivia

Accept unambiguous abbreviations, e.g. O, or recognisable misspellings.

Accept 1,220 for the award of the mark.

1

[2]