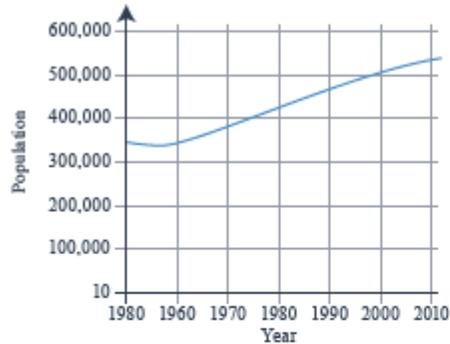


Tuesday 2nd June - rapid reasoning

Q1 Look at this line graph. It shows the population of a town in Norfolk.



a In which year did the population reach 450,000 for the first time?

1 mark

b By how much did the population increase in the 40 years before the year 2000?

1 mark

Q2 Round 94,516

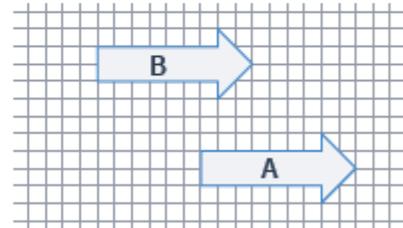
to the nearest 10:

to the nearest 100:

to the nearest 1,000:

2 marks

Q3 These two arrows are identical.



Complete the boxes to describe the translation of arrow A to arrow B.

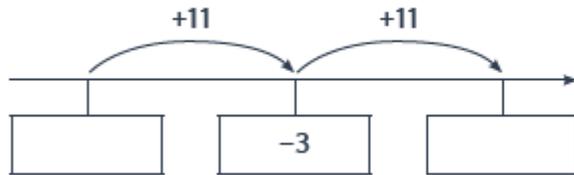
The arrow has moved squares

up and squares to the left.

1 mark

Q1 Here is part of a number line.

Write the missing numbers in the boxes.



2 marks

Q2 Ali puts these five numbers on a number line.

567,843 453,999 1,033,321 940,999 587,743

a Which number would be closest to 500,000?

1 mark

b Which number would be closest to one million?

1 mark

Q3 Circle the fractions below that are not equivalent to $\frac{6}{7}$.

$\frac{18}{21}$ $\frac{22}{28}$ $\frac{60}{70}$ $\frac{42}{35}$ $\frac{7}{14}$ $\frac{72}{84}$

2 marks

Q1

This is a weather report from the radio:

"The temperature in Dundee will average 3°C . The temperature in Glasgow will be 5°C lower than Dundee. The temperature in London will be 8°C higher than Glasgow."

a

What will the temperature be in Glasgow today?

1 mark

b

What will the temperature be in London today?

1 mark

Q2

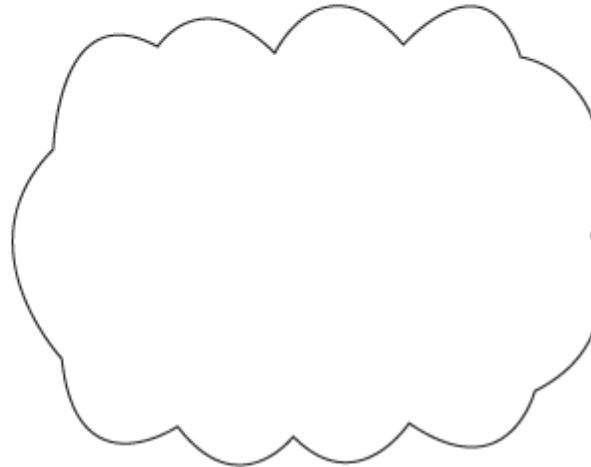
Gracie and Evie each start with the same number.

Gracie rounds the number to the nearest hundred.

Evie rounds the number to the nearest ten.

Gracie's answer is double Evie's answer.

Explain how this could be.



1 mark

Q1 This table shows the height of the four tallest mountains in Europe.

Mountain name	Height in feet
Mount Elbrus	18,510
Mount Shkhara	17,064
Mont Blanc	15,774
Monte Rosa	15,203

How much higher are Mount Elbrus and Mount Shkhara combined than Mount Blanc and Mount Rosa combined?

feet

2 marks

Q2 Complete this table.

Number	Rounded to the nearest thousand
5,843	
874,732	
699,847	
43,743,743	

2 marks

Q3 Draw lines to match the equivalent proportions.

$\frac{1}{2}$	25%
$\frac{1}{4}$	0.5
$\frac{1}{5}$	80%
$\frac{2}{5}$	20%
$\frac{4}{5}$	0.4

2 marks

Q1

Vicky writes down three numbers:

506,606 650,660 566,600

Write down two things that are the same about these numbers and two things that are different.

Same:

Different:

1 mark**Q2**

The difference between two whole numbers is four.

When each number is rounded to the nearest hundred, the difference between them is 100.

Write two possible values for the sets of numbers.

	and	
	and	

2 marks**Q3**Marley says " $\frac{3}{4}$ and $\frac{21}{28}$ are equivalent."

Explain why Marley is correct.

1 mark