Year 7

Place Value

Name _____

1 Write down a five-digit whole number that has a 4 in the thousands place and 7 in the tens place.

Any 5-digit integer of the form $a4b7c$ e.g. 34178, 94979 etc.

1 mark

Write down the number that is 10,000 more than 9 million.

9 010 000

1 mark

2 Complete the statements using <, > or =

2.5 million	>	250 000
0.351	<	0.36
6 hundredths	<	$\frac{6}{10}$

3 marks

3 The ages of four children are 14, 12, 15, and 17
Work out the range of the ages of the four children.

5

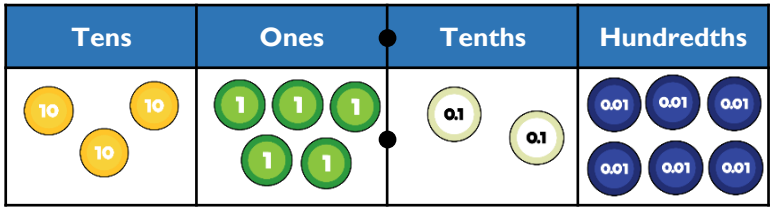
1 mark

Work out the median of the ages of the four children.

$14\frac{1}{2}$ or 14.5

1 mark

4 Kai represents a number using place value counters.



What number does Kai represent?

35.26

1 mark

Kai says his number rounded to the nearest whole number is 35

Is Kai correct? Give a reason for your answer.

Yes AND 0.26 < 0.5 or similar

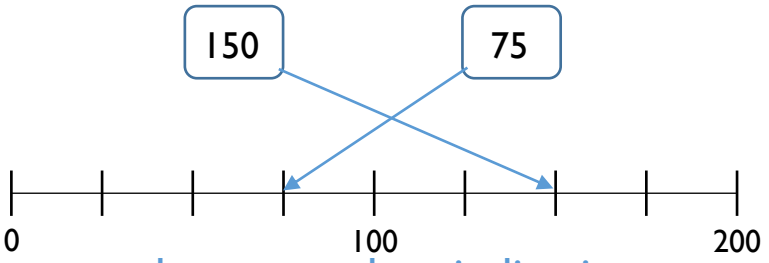
1 mark

Round Kai's number to one significant figure.

40

1 mark

5 Draw arrows to the number line to show the position of each of these numbers.



2 marks

e.g. as above, any clear indication

Draw an arrow onto this number line to show the approximate position of 0.35

1 mark

Must be closer to 0.4 than 0.2

6 Write down the value of the 5 in each of these numbers.

NB – throughout so not accept e.g. "hundredths"

8.154 Five hundredths (accept $\frac{5}{100}$)

751 602 Fifty thousand (accept e.g. 50, 000)

1 567 324 896 Five hundred million (accept e.g. 500 million)

3 marks

7 Here are five number cards.

5	8	?	3	3

- The **median** of the numbers is 5
- The **range** of the numbers is 5
- There is one missing number.

Write down **one** possible value of the missing number.

Any value between 5 and 8 inclusive

1 mark

Explain why the missing number **couldn't** be 9

e.g. the range would then be 6

1 mark

8 H Fay thinks that one billion is the same as $10^2 \times 10^7$

Joe thinks that one billion is the same a $10^3 \times 10^6$

Explain why they are both **correct**.

e.g. they are both equal to 10^9

1 mark

Put these numbers in ascending order

7×10^2 2×10^7 7×10^{-2} 2×10^{-7}

2×10^{-7} 7×10^{-2} 7×10^2 2×10^7

1 mark

Total marks