Name:

Maths Assessment Year 6 Term 3: Number and Place Value

1. Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.
2. Round any whole number to a required degree of accuracy.
3. Use negative numbers in context, and calculate intervals across zero.
4. Solve number and practical problems.

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Name: Date:

40 total marks

Maths Assessment Year 6 Term 3: Number and Place Value

1. Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.

a) Complete the table:

Number in words	Number in digits
	2 019 403
Three hundred and fifteen thousand and four	
Seventy million, sixteen thousand, two hundred and ninety-nine	
	34 560 812

4 marks

b) Order these numbers from smallest to largest:

1 101 011	101 011	110 110	11 001 101	1 011 011	10 010 101

smallest largest

1 mark

c) Compare the numbers below using <, > or =

3 450 561		3 405 651
three hundred and fifteen thousand, two hundred and four		315 204
nine million, forty-four thousand, one hundred and sixteen		nine million, forty-four thousand, one hundred and sixty

1 mark

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d) Complete the table where the digit from each number in the first column that represents the value in the second column, is written in the final column. The first one is done for you.

Number	Place Value	Digit
506 723	Thousands	6
4 892 072	Hundred thousands	
14 362 008	Millions	
74 519 846		1
	Ten millions	4

4 marks

2. Round any number to a required degree of accuracy.

a) Complete the table by rounding the numbers as instructed.

Number	Rounded to the nearest	Rounded Number
723 619	hundred	
4 782 341	thousand	
7 829 710	ten thousand	
14 512 879	hundred thousand	
90 208 374	hundred thousand	
37 263 809	million	
45 736 228	million	
63 869 240	fifty	
37 827 037	fifty thousand	

10 marks

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3. Use negative numbers in context, and calculate intervals across zero.

a) Write the numbers that would go in the boxes highlighted in this number grid.

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

2 marks

b) Continue these sequences:

45	25	5			

32	17	2			

-41	-30	-19			

3 marks

c) This table shows the temperature in Sheffield at different times of a winter's day.

Time	Temperature
07:00	-4^0C
10:00	2^0C
13:00	8^0C
16:00	6^0C
19:00	-1^0C
22:00	-6^0C

i. What is the difference between the highest and lowest temperature measured on this day?

1 mark

ii. Between which times is the biggest change in temperature?

1 mark

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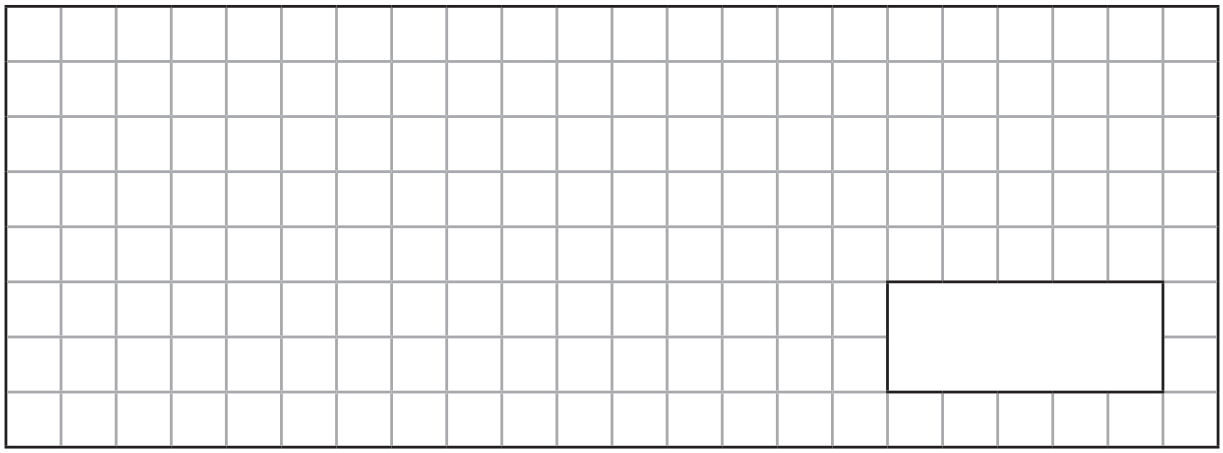
iii. How much colder is the temperature at 22:00 than at 07:00?

1 mark

d) A man buys a car which costs £3250. He has £950 in cash and £1560 in his bank account. How much did he need to borrow?



2 marks

4. Solve number and practical problems.

a) This table shows the population of some of the countries in Europe. Round each population to the nearest hundred thousand.

Country	Population	Population rounded to the nearest hundred thousand
France	64 668 129	
Germany	80 682 351	
Italy	59 801 004	
Poland	38 593 161	
Spain	46 064 604	
UK	65 111 143	

6 marks

b) Write the countries in order of population, with the largest at the top.

1.	
2.	
3.	
4.	
5.	
6.	

1 mark

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c) The population of 4 other countries are as follows:

Country	Population	Population rounded to the nearest million
Romania	19 372 734	
Belgium	11 371 928	
Czech Republic	10 548 058	
Portugal	10 304 434	

Having rounded the takings for each population to the nearest million, complete the following using <, > or =.

Czech Republic		Portugal
Belgium		Czech Republic
Romania		Portugal

3 marks

Total for this page

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Answer Sheet: Maths Assessment Year 6 Term 3: Number and Place Value

<table>
<tr><th>question</th><th>answer</th><th>marks</th><th>notes</th></tr>
<tr><td colspan="4">1. Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.</td></tr>
<tr><td>a</td><td>
<table>
<tr><th>number in words</th><th>number in digits</th></tr>
<tr><td>Two million and nineteen thousand, four hundred and three</td><td>2 019 403</td></tr>
<tr><td>Three hundred and fifteen thousand and four</td><td>315 004</td></tr>
<tr><td>Seventy million, sixteen thousand, two hundred and ninety-nine</td><td>70 016 299</td></tr>
<tr><td>Thirty four million, five hundred and sixty thousand, eight hundred and twelve.</td><td>34 560 812</td></tr>
</table>
</td><td>4</td><td>One mark for each box correctly completed.
When writing numbers in words accept incorrect spellings as long as the intention is clear, however don't accept the digits just written as words, e.g. four nine zero two eight three six.</td></tr>
<tr><td>b</td><td>
<table>
<tr><td>101 011</td><td>110 110</td><td>1 011 011</td><td>1 101 011</td><td>10 010 101</td><td>11 001 101</td></tr>
</table>
</td><td>1</td><td></td></tr>
<tr><td>c</td><td>
<table>
<tr><td>3 450 561</td><td>></td><td>3 405 651</td></tr>
<tr><td>three hundred and fifteen thousand, two hundred and four</td><td>=</td><td>315 204</td></tr>
<tr><td>nine million, forty-four thousand, one hundred and sixteen</td><td><</td><td>nine million, forty-four thousand, one hundred and sixty</td></tr>
</table>
</td><td>1</td><td></td></tr>
<tr><td>d</td><td>
<table>
<tr><th>Number</th><th>Place Value</th><th>Digit</th></tr>
<tr><td>506 723</td><td>Thousands</td><td>6</td></tr>
<tr><td>4 892 072</td><td>Hundred thousands</td><td>8</td></tr>
<tr><td>14 362 008</td><td>Millions</td><td>4</td></tr>
<tr><td>74 519 846</td><td>Ten thousands</td><td>5</td></tr>
<tr><td>4* *** ***</td><td>Ten millions</td><td>4</td></tr>
</table>
</td><td>4</td><td>1 mark for each. The final question can be any number with a 4 in the ten millions place, including numbers of more than 8 digits.</td></tr>
</table>

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<table>
<tr><th>question</th><th>answer</th><th>marks</th><th>notes</th></tr>
<tr><td colspan="4">2. Round any number to a required degree of accuracy.</td></tr>
<tr><td>a</td><td>
<table>
<tr><th>Number</th><th>Rounded to the nearest ten</th><th>Rounded Number</th></tr>
<tr><td>723 619</td><td>hundred</td><td>723 600</td></tr>
<tr><td>4 782 341</td><td>thousand</td><td>4 782 000</td></tr>
<tr><td>7 829 710</td><td>ten thousand</td><td>7 830 000</td></tr>
<tr><td>14 512 879</td><td>hundred thousand</td><td>14 500 000</td></tr>
<tr><td>90 208 374</td><td>hundred thousand</td><td>90 200 000</td></tr>
<tr><td>37 263 809</td><td>million</td><td>37 000 000</td></tr>
<tr><td>45 736 228</td><td>million</td><td>46 000 000</td></tr>
<tr><td>63 869 240</td><td>fifty</td><td>63 869 250</td></tr>
<tr><td>37 827 037</td><td>fifty thousand</td><td>37 850 000</td></tr>
</table>
</td><td>10</td><td>One mark for each correct answer.</td></tr>
<tr><td colspan="4">3. Use negative numbers in context, and calculate intervals across zero.</td></tr>
<tr><td>a</td><td>-2 and -17</td><td>2</td><td>Numbers in the correct boxes. Others can be completed, and needn't be correct.</td></tr>
<tr><td>b</td><td>
<table>
<tr><td>45</td><td>25</td><td>5</td><td>-15</td><td>-35</td><td>-55</td></tr>
<tr><td>32</td><td>17</td><td>2</td><td>-13</td><td>-28</td><td>-43</td></tr>
<tr><td>-41</td><td>-30</td><td>-19</td><td>-8</td><td>3</td><td>14</td></tr>
</table>
</td><td>3</td><td>1 mark for each sequence correct. All 3 numbers in each sequence must be correct for the mark.</td></tr>
<tr><td>c</td><td>i. 14°C
ii. Between 16:00 and 19:00
iii. 2°C</td><td>3</td><td>One mark for each correct answer.</td></tr>
<tr><td>d</td><td>£740</td><td>2</td><td>2 marks for correct answer. 1 mark for correct calculation with only one mistake in calculating.</td></tr>
</table>

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<table>
<tr><th>question</th><th>answer</th><th>marks</th><th>notes</th></tr>
<tr><td colspan="4">4. Solve number and practical problems.</td></tr>
<tr><td>a</td><td>
<table>
<tr><th>Country</th><th>Population</th><th>Population rounded to the nearest hundred thousand</th></tr>
<tr><td>France</td><td>64 668 129</td><td>64 700 000</td></tr>
<tr><td>Germany</td><td>80 682 351</td><td>80 700 000</td></tr>
<tr><td>Italy</td><td>59 801 004</td><td>59 800 000</td></tr>
<tr><td>Poland</td><td>38 593 161</td><td>38 600 000</td></tr>
<tr><td>Spain</td><td>46 064 604</td><td>46 100 000</td></tr>
<tr><td>UK</td><td>65 111 143</td><td>65 100 000</td></tr>
</table>
</td><td>6</td><td>One mark for each correct answer.</td></tr>
<tr><td>b</td><td>
<table>
<tr><td>1</td><td>Germany</td></tr>
<tr><td>2</td><td>UK</td></tr>
<tr><td>3</td><td>France</td></tr>
<tr><td>4</td><td>Italy</td></tr>
<tr><td>5</td><td>Spain</td></tr>
<tr><td>6</td><td>Poland</td></tr>
</table>
</td><td>1</td><td></td></tr>
<tr><td>c</td><td>
<table>
<tr><td>Czech Republic (11 000 000)</td><td>></td><td>Portugal (10 000 000)</td></tr>
<tr><td>Belgium (11 000 000)</td><td>=</td><td>Czech Republic (11 000 000)</td></tr>
<tr><td>Romania (19 000 000)</td><td>></td><td>Portugal (10 000 000)</td></tr>
</table>
</td><td>3</td><td>One mark for each correct answer.</td></tr>
<tr><td colspan="2"></td><td>Total 40</td><td></td></tr>
</table>

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