Name:

Maths Assessment Year 5 Term 2: Number and Place Value

1. Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.
2. Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.
3. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
4. Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.
5. Solve number problems and practical problems.
6. Read Roman numerals to 1,000 and recognise years written in Roman numerals.

Name: Date:

45 total marks

Maths Assessment Year 5 Term 2: Number and Place Value

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

a) Fill in the missing boxes:

Number in digits	Number in words
	Ninety thousand and forty
213,430	
987,036	
	six hundred and three thousand, five hundred and one
	sixteen hundred and twelve

5 marks

b) Order these numbers from largest to smallest:

516,009	551,900	516,090	59,005	50,999	505,909

1 mark

c) Complete the table below using the following 3 numbers:
607,973 706,379 776,039 .

670,930	<	
	>	767,903
706,309	>	

3 marks

Total for this page

d) Circle any numbers which have a digit value of the following:

400:	34,604	206,498	440,498	644,593
7,000:	87,915	789,730	927,007	630,764
9:	900,919	617,921	799,091	789,193
300,000:	458,923	34,823	3,933	393,291

4 marks

2. Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.

a) Count forwards in the steps shown from each number:

Count on in steps of	Starting number				
100	34,863				
100,000	609,812				
1,000	739,004				

3 marks

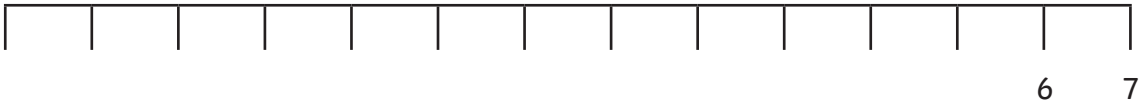
b) Count backwards in the steps shown from each number:

Count back in steps of	Starting number				
10	900,023				
10,000	121,034				
1,000	4,834				

3 marks

3. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.

a) Count backwards from 6:



1 mark

Total for this page

b) This chart shows the average temperatures in Montreal for alternate months. Order the months from coldest to warmest:

Month	Maximum temperature
February	-4° C
April	7° C
June	20° C
August	21° C
October	9° C
December	-6° C

Coldest
Warmest

1 mark

c) What is the difference between the warmest monthly temperature and the coldest?

1 mark

4. Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.

a) Round 908,517 to the nearest value in the following table:

	rounded to the nearest	rounded number
908,517	10	
908,517	100	
908,517	1,000	
908,517	10,000	
908,517	100,000	

5 marks

b) Circle the correct value to which each number is rounded:

764,356 is rounded to 760,000 when it is rounded to the nearest:

1,000 10,000 100,000

Total for this page

304,531 is rounded to 305,000 when it is rounded to the nearest:

100 1,000 10,000

45,023 is rounded to 45,020 when it is rounded to the nearest:

100 10 1,000

500,619 is rounded to 501,000 when it is rounded to the nearest:

10,000 100 1,000

673,803 is rounded to 670,000 when it is rounded to the nearest:

10,000 100,000 1,000

5 marks

5. Solve number problems and practical problems.

a) The asking price for a house £269,000. An offer is made at £10,000 less than this asking price. How much is the offer?

£

1 mark

b) The daytime temperature is 15°C. The temperature falls by 21°C during the night. To what temperature does it fall?

C°

1 mark

c) A school raised £350 in a charity event, when the figure was rounded. How could the amount raised be rounded and what is the possible smallest and largest amount raised?

Rounded to the nearest £____. The smallest amount could be £_____ and the largest £_____

2 marks

d) What number is one thousand more than two hundred and seventeen thousand and fifty two? Write the answer in digits.

1 mark

Total for this page

6. Read Roman numerals to 1,000 and recognise years written in Roman numerals.

a) Draw lines to match the following numbers to their Roman numeral equivalent:

525	CLVII
52	DCLXX
157	LII
319	DXXV
670	CCCXIX

5 marks

b) The years these films were released are written in Roman numerals. Write the years in digits from earliest to latest:

Big Hero 6	MMXV
Mary Poppins	MCMLXIV
The Incredibles	MMIV
Star Wars	MCMLXXVII
Transformers	MMVII

Earliest
Latest

3 marks

Total for this page

Answer Sheet: Maths Assessment Year 5 Term 2: 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 to at least 1,000,000 and determine the value of each.</td></tr>
<tr><td>a</td><td><table>
<tr><td>90,040</td><td>Ninety thousand and forty</td></tr>
<tr><td>213,430</td><td>Two hundred and thirteen thousand, four hundred and thirty</td></tr>
<tr><td>987,036</td><td>Nine hundred and eighty seven thousand and thirty six</td></tr>
<tr><td>603,501</td><td>six hundred and three thousand, five hundred and one</td></tr>
<tr><td>1,612</td><td>sixteen hundred and twelve</td></tr>
</table></td><td>up to 5 marks</td><td>When writing numbers in words, accept incorrect spellings as long as it can be decoded but don't accept just the digits written eg. three seven nine.</td></tr>
<tr><td>b</td><td><table>
<tr><td>551,900</td><td>516,090</td><td>516,009</td><td>505,909</td><td>59,005</td><td>50,999</td></tr>
</table></td><td>1</td><td></td></tr>
<tr><td>c</td><td><table>
<tr><td>670,930</td><td><</td><td>706,379</td></tr>
<tr><td>776,039</td><td>></td><td>767,903</td></tr>
<tr><td>706,309</td><td>></td><td>607,973</td></tr>
</table></td><td>3</td><td></td></tr>
<tr><td>d</td><td>206,498 440,498
87,915 927,007
900,919
393,291</td><td>4</td><td>1 mark for each correct row.
Where there are 2 possible answers, both must have a ring around for the mark.</td></tr>
<tr><td colspan="4">2. Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.</td></tr>
<tr><td>a</td><td><table>
<tr><td>34,963</td><td>35,063</td><td>35,163</td><td>35,263</td></tr>
<tr><td>709,812</td><td>809,812</td><td>909,812</td><td>1,009,812</td></tr>
<tr><td>740,004</td><td>741,004</td><td>742,004</td><td>743,004</td></tr>
</table></td><td>3</td><td></td></tr>
<tr><td>b</td><td><table>
<tr><td>900,013</td><td>900,003</td><td>899,993</td><td>899,983</td></tr>
<tr><td>111,034</td><td>101,034</td><td>91,034</td><td>81,034</td></tr>
<tr><td>3,834</td><td>2,834</td><td>1,834</td><td>834</td></tr>
</table></td><td>3</td><td></td></tr>
<tr><td colspan="4">3. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</td></tr>
<tr><td>a</td><td> 
</td><td>1</td><td></td></tr>
<tr><td>b</td><td><table>
<tr><td>December</td></tr>
<tr><td>February</td></tr>
<tr><td>April</td></tr>
<tr><td>October</td></tr>
<tr><td>June</td></tr>
<tr><td>August</td></tr>
</table></td><td>1</td><td>Allow numbers to be written:<table>
<tr><td>-6° C</td></tr>
<tr><td>-4° C</td></tr>
<tr><td>7° C</td></tr>
<tr><td>9° C</td></tr>
<tr><td>20° C</td></tr>
<tr><td>21° C</td></tr>
</table></td></tr>
<tr><td>c</td><td>27°</td><td>1</td><td></td></tr>
</table>

<table>
<tr><th>question</th><th>answer</th><th>marks</th><th>notes</th></tr>
<tr><td colspan="4">4. Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.</td></tr>
<tr><td>a</td><td>
<table>
<tr><td></td><td>rounded to the nearest</td><td>rounded number</td></tr>
<tr><td>908,517</td><td>10</td><td>908,520</td></tr>
<tr><td>908,517</td><td>100</td><td>908,500</td></tr>
<tr><td>908,517</td><td>1,000</td><td>909,000</td></tr>
<tr><td>908,517</td><td>10,000</td><td>910,000</td></tr>
<tr><td>908,517</td><td>100,000</td><td>900,000</td></tr>
</table>
</td><td>5</td><td>1 mark for each correct answer.</td></tr>
<tr><td>b</td><td>10,000
1,000
10
1,000
10,000</td><td>5</td><td>1 mark for each correct answer.</td></tr>
<tr><td colspan="4">5. Solve number problems and practical problems that involve all of the above.</td></tr>
<tr><td>a</td><td>£259,000</td><td>1</td><td></td></tr>
<tr><td>b</td><td>-6°C</td><td>1</td><td></td></tr>
<tr><td>c</td><td>Nearest £10; (allow £1)

£345 - £354.99 (allow £349.50 - £350.49 if rounded to £1)</td><td>2</td><td>1 mark for each correct answer.</td></tr>
<tr><td>d</td><td>218,052</td><td>1</td><td></td></tr>
<tr><td colspan="4">6. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</td></tr>
<tr><td>a</td><td>
<table>
<tr><td>525</td><td></td><td>CLVII</td></tr>
<tr><td>52</td><td></td><td>DCLXX</td></tr>
<tr><td>157</td><td></td><td>LII</td></tr>
<tr><td>319</td><td></td><td>DXXV</td></tr>
<tr><td>670</td><td></td><td>CCCXIX</td></tr>
</table>
</td><td>5</td><td>3 marks for all correct
2 marks for 1 error
1 mark for 2 errors</td></tr>
<tr><td>b</td><td>
<table>
<tr><td>Earliest</td><td>1964</td></tr>
<tr><td></td><td>1977</td></tr>
<tr><td></td><td>2004</td></tr>
<tr><td></td><td>2007</td></tr>
<tr><td>Latest</td><td>2015</td></tr>
</table>
</td><td>3</td><td>3 marks for all correct
2 marks for 1 error
1 mark for 2 errors</td></tr>
<tr><td colspan="2"></td><td>Total 45</td><td></td></tr>
</table>