

Maths Assessment Year 6: 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.



Maths Assessment Year 6: Number and Place Value

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

a) Fill in the missing boxes:

Number in digits	Number in words
	One million, six hundred and thirty-three thousand, four hundred and fifty
3 905 231	
	Five million, one hundred and ninety-four thousand, eight hundred and two
2 730 867	

$\ensuremath{\textbf{b}}\xspace$) Order these numbers from smallest to largest:

1 912 678	192 508	534 176	2 317 302	91 459	37 916

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

	< > or =	
6 678 543		6 786 534
5 454 163		4 451 463
2 342 781		2 342 781

d) In the numbers below, **circle the digit** that is worth the amount written in words:

2 347 302	Three hundred
8 983 582	Eighty
124 463	Four thousand
5 759 474	Seven hundred thousand





4 marks

1 mark



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

a) Round these numbers to the **nearest ten**:

Number	Rounded to the nearest ten
8 235 678	
5 166 312	

b) Round these numbers to the **nearest hundred**:

Number	Rounded to the nearest hundred
3 547 850	
6 987 022	

c) Round these numbers to the **nearest thousand**:

Number	Rounded to the nearest thousand
2 370 100	
5 867 499	

d) Round these numbers to the **nearest ten thousand**:

Number	Rounded to the nearest ten thousand
8 464 122	
9 804 671	

e) Round these numbers to the nearest hundred thousand:

Number	Rounded to the nearest hundred thousand
1 443 522	
7 804 671	



2 marks







2 marks





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

a) Continue this number sequence:

|--|

b) Continue this number sequence:

	12	8	4	0) 1 m
--	----	---	---	---	--	--	--	--	-------

c) This map shows the temperature of different places in Europe:



Which place has the coldest temperature?	
Which place has the warmest temperature?	
What is the difference in the temperatures in Stockholm and Rome?	°c
What is the difference in the temperatures in Dublin and Copenhagen?	°c
The temperature in Paris decreases by 5°C. What is the new temperature?	°c
The temperature in London increases by 6°C. What is the new temperature?	°c
The temperature in Oslo increases by 4°C. What is the new temperature?	°c
The temperature in Berlin decreases by 3°C. What is the new temperature?	°c



This chart shows the population of different cities in the UK.

a) Round each number to the nearest ten thousand.

City	Population	Rounded to the nearest ten thousand
Birmingham	1 092 330	
London	8 615 246	
Manchester	502 900	
Cardiff	346 100	
Glasgow	596 550	
Edinburgh	487 501	

b) Write the cities in order based on their population, from smallest to largest:

Sm	allest	
Lar	gest	

c) Use the symbols < , > or = to compare the size of these cities' populations:

	< > or =	
Birmingham		London
Glasgow		Edinburgh
Manchester		Cardiff



6 marks



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question		ans	marks	notes				
1. Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.								
	number in digits	number in wo	number in words			One mark for each box correctly filled in.		
	1 633 450	One million, six hundred and thirty-three thousand, four hundred and fifty				When writing numbers in words, accept incorrect		
а	3 905 231	Three million, two hundred	nine-hundr and thirty-(ed and five thousand, one	4	spellings as long as the intention is clear,		
	5 194 802	Five million, or thousand, eig	ne hundred ht hundred	and ninety-four and two		however don't accept the digits written just as words, eg one six		
	2 730 867	Two million, se thousand, eig	even-hundr ht hundred	ed and thirty and sixty-seven		three three four five zero.		
b	37 916 91 459	192 508	534 176	1	One mark awarded for all numbers correctly put into order.			
		< > or =						
с	6 678 543	<		6 786 534		1 mark for all three symbols correctly used.		
	5 454 163	>		4 451 463				
		_	1	2 3 7 2 7 01				
	2 347 302	Three hundred						
d	8 983 582	Eighty				One mark for each		
u u	124 463	Four th		our thousand		circled.		
	5759 474	Seven hundred thousand						
2. Round ar	ny number to a requ	uired degree o	f accuracy.					
	Number	Rounded to						
а	8 235 678	8 235 680		2				
	5 166 312	5 166 310						
	Number	Rounded to	st hundred]	One mark for each			
b	3 547 850	3 547 900	3 547 900			number correctly written.		
	6 987 022	6 987 000]					
	Number	Rounded to	the neares	earest thousand				
С	2 370 100	2 370 000			2			
	5 867 499	5 867 000						

6



question	answer							marks	notes		
	Number Rounded to the ten thousand										
d	8 464 122	8 460 0	00						2		
	9 804 671 9 800 000								One mark for each		
	Number Pounded to the hundred theusend									number correctly	
е	1 443 522		1 400 0							2	
_	7 804 671		7 800 0	00							
3. Use nega	3. Use negative numbers in context, and calculate intervals across zero.										
											1 mark for all
а	7 5	3	3 1	-1	1	-3	-5		-7	1	sequence correctly
											identified.
							10				negative numbers without the correct
b	12 8	2	1 0	-4	4	-8	-12		-16		
										One mark for each correct answer. Ensure negative / positive numbers do / do not have the correct symbol as appropriate.	
	Which place has the coldest temperature? Usio						4	8			
	Which place has the warmest temperature? Madrid						u				
	Stockholm and Rome?										
	What is the difference in the temperatures in Dublin and Copenhagen?										
с	The temperature in Paris decreases by 5°c. What -3°c -3°c										
	The temperature in London increases by 6°c.5°cWhat is the new temperature?5°c										
	The temperature in Oslo increases by 4°c. What is the new temperature?										
	The temperature in Berlin decreases by 3°c. What -6°c -6°c										
4. Solve number and practical problems.											
	City	Po	pulation	ation Rounded to the nearest ten thousand							
а	Birmingham	10	92 330	1 090	1 090 000						
	London	8 (615 246	8 620 000						6	One mark for each
	Manchester	- 50	2 900	0 500 000							correct answer.
	Cardiff	34	6 100	350 000							
	Glasgow	59	6 550 600 000								
	Edinburgh	487 501 490 000									

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question		answ	marks	notes		
	smallest	Cardiff			One mark for all	
		Edinburgh				
l. la		Manchester				
a		Glasgow				cities correctly put
		Birmingham				
	largest	London				
		< > 0r =	< > 0r =			One mark for each correct symbol.
	Birmingham	<	Lond	London		
С	Glasgow	>	Edint	Edinburgh		
	Manchester	>	> Cardiff			
					Total 40	

