Maths Assessment Year 6 Term 2: 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.

40
total marks

twinkl

Maths Assessment Year 6 Term 2: 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
	4 902 836
Seven hundred thousand and fifty-three	
Ninety seven million, forty thousand, three hundred and seventy	
	60 314 806

4 marks

b) Order these numbers from smallest to largest:

455 656	5 454 465	645 546	45 465 554	546 654	5 455 464

1 mark

c) Write a number that will make this statement true:

7 827 309   <   _____   <   7 827 319

1 mark

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
452 712	Ten thousands	5
5 902 341	Hundred	
69 472 903	Millions	
74 519 846		5
	Ten millions	2

4 marks

Total for this page

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

a) Complete the table by rounding the numbers to the nearest number instructed.

Number	Rounded to the nearest	Rounded Number
792 087	hundred	
2 868 256	thousand	
9 074 438	ten thousand	
47 107 099	hundred thousand	
64 065,371	hundred thousand	
64 407 220	million	
51 798 269	million	
35 775 526	fifty	
29 165 055	fifty thousand	

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

b) Continue these sequences:

100	75	50			

37	21	5			

-24	-19	-14			

c) These thermometers show the temperature inside and outside of a school at 9am.

Inside

| 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 | -5 | -10 |

Outside

| 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 | -5 | -10 |

i. What is the inside and outside temperature?

Inside: [ ]   Outside: [ ]

ii. What is the difference in temperature between the inside and the outside?

Answer: [ ]

d) Adam has £11.50 in his piggy bank. He is given £3.50 pocket money each week, and is owed 2 weeks of this pocket money by his mum. He wants to buy a new cycle helmet that costs £27.95. How much more money will he need?

4. Solve number and practical problems.

This table shows the 6 films with the highest takings in UK cinemas over the weekend of 1st – 3rd January 2016.

a) Round the takings to the nearest £1000.

Film	Weekend Takings	Takings rounded to nearest 1000
Daddy's Home	£2 908 358	
Joy	£1 519 936	
Snoopy And Charlie Brown: The Peanuts Movie	£1 296 199	
Star Wars: The Force Awakens	£10 304 562	
The Danish Girl	£1 376 191	
The Good Dinosaur	£849 828	

b) Write the films in order of takings, with the largest at the top:

1	
2	
3	
4	
5	
6	

The next 4 films are as follows:

The Winter's Tale 2015	£230 100
The Hunger Games: Mockingjay, Part 2	£352 830
In The Heart Of The Sea	£436 453
Spectre	£278 547

c) Round the takings for each film to the nearest hundred thousand pounds and then complete the following using <, > or =.

The Winter's Tale 2015		Spectre
In the Heart of the Sea		The Hunger Games: Mockingjay, Part 2
The Hunger Games: Mockingjay, Part 2		Spectre

question	answer	marks	notes
1. Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.			
a		4	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.
b		1	One mark awarded for all numbers correctly put into order.
c	Any number from 7 827 310 to 7 827 318.	1	
d		4	1 mark for each. The final question can be any number with a 2 in the ten millions place, including numbers of more than 8 digits.
2. Round any number to a required degree of accuracy.			
a		10	1 mark for each correct answer.

Question 1a table:

number in words	number in digits
Four million, nine hundred and two thousand, eight hundred and thirty-six	4 902 836
Seven hundred thousand and fifty-three	700 053
Ninety seven million, forty thousand, three hundred and seventy	97 040 370
Sixty million, three hundred and fourteen thousand, eight hundred and six	60 314 806

Question 1b:

455 656	546 654	645 546	5 454 465	5 455 464	45 465 554

Question 1d table:

Number	Place Value	Digit
452 712	Ten thousands	5
5 902 341	Hundred	3
69 472 903	Millions	9
74 519 846	Hundred thousands	5
2* *** ***	Ten millions	2

Question 2a table:

Number	Rounded to the nearest ten	Rounded Number
792 087	hundred	792 100
2 868 256	thousand	2 868 000
9 074 438	ten thousand	9 070 000
47 107 099	hundred thousand	47 100 000
64 065 371	hundred thousand	64 100 000
64 407 220	million	64 000 000
51 798 269	million	52 000 000
35 775 526	fifty	35 775 550
29 165 055	fifty thousand	29 150 000

question	answer	marks	notes
3. Use negative numbers in context, and calculate intervals across zero.			
a	-6 and -13	2	Numbers in the correct boxes. Others can be completed, and needn't be correct.
b	<table><tr><td>100</td><td>75</td><td>50</td><td>**25**</td><td>**0**</td><td>**-25**</td></tr><tr><td>37</td><td>21</td><td>5</td><td>**-11**</td><td>**-27**</td><td>**-43**</td></tr><tr><td>-24</td><td>-19</td><td>-14</td><td>**-9**</td><td>**-4**</td><td>**1**</td></tr></table>	3	1 mark for each sequence correct. All 3 numbers in each sequence must be correct for the mark.
c	**i. Inside:** 21C , **Outside:** -4C **ii.** 25C	3	
d	£9.45	2	2 marks for correct answer. 1 mark for correct calculation with only one mistake in calculating.
4. Solve number and practical problems.			
a	<table><tr><td>**Film**</td><td>**Weekend Takings**</td><td>**Takings rounded to nearest 1,000**</td></tr><tr><td>Daddy's Home</td><td>£2 908 358</td><td>£2 908 000</td></tr><tr><td>Joy</td><td>£1 519 936</td><td>£1 520 000</td></tr><tr><td>Snoopy And Charlie Brown: The Peanuts Movie</td><td>£1 296 199</td><td>£1 296 000</td></tr><tr><td>Star Wars: The Force Awakens</td><td>£10 304 562</td><td>£10 305 000</td></tr><tr><td>The Danish Girl</td><td>£1 376 191</td><td>£1 376 000</td></tr><tr><td>The Good Dinosaur</td><td>£849 828</td><td>£850 000</td></tr></table>	6	One mark for each correct answer.
b	<table><tr><td>1</td><td>Star Wars: The Force Awakens</td></tr><tr><td>2</td><td>Daddy's Home</td></tr><tr><td>3</td><td>Joy</td></tr><tr><td>4</td><td>The Danish Girl</td></tr><tr><td>5</td><td>Snoopy And Charlie Brown: The Peanuts Movie</td></tr><tr><td>6</td><td>The Good Dinosaur</td></tr></table>	1	
c	<table><tr><td>The Winter's Tale 2015</td><td><</td><td>Spectre</td></tr><tr><td>In the Heart of the Sea</td><td>=</td><td>The Hunger Games: Mockingjay, Part 2</td></tr><tr><td>The Hunger Games: Mockingjay, Part 2</td><td>></td><td>Spectre</td></tr></table>	3	1 mark for each correct answer.