

Year 6 Place Value Maths Chilli Challenge Cards

Nice and Spicy!

# Counting

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



"Count forwards from -3."

-3.		0.	. 2.	
J,	,	· ,	, _, _	

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# Place Value

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

261.093	
7 1	
	261,093

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# Compare and Order

Order and compare numbers to at least 1,000,000 and determine the value of each digit. Write <, > or =

Order the following: 722,727, 27,277, 727,272, 722,772

- [			
- 1			
- !			
	smallest		areatest

Year 6 Place Value Maths Chilli Challenge Cards	Nice and Spicy!			
Rounding				
Explain why 67,286 could be rounded to 70,00	00.			
Round 50 to the nearest 20.				
Year 6 Place Value Maths Chilli Challenge Cards	Nice and Spicu!			

Nice and Spicy! Year 6 Place Value Maths Chilli Challenge Cards Read and Write Read and write numbers to at least 100,000 and determine the value of each digit. 624,104 Seven hundred and twenty-three thousand, six hundred and thirteen

### **Solve Problems**

Solve number and practical problems that involve all of the other objectives.

Which 2 numbers can be multiplied to equal one thousand?

20

200

A pond is frozen so has ice on top but water underneath. The temperature at the bottom of the pond is 4°C. The temperature of the air above the ice is -2°C? What is the difference in temperature? Year 6 Place Value Maths Chilli Challenge Cards

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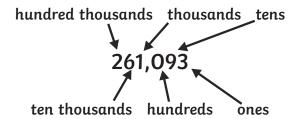
### **Answers**

Counting

-2

-3, -2, -1, 0, 1, 2, 3...

Place Value



# **Answers**

Compare and Order 151,515 > 151,155

27,277 | 722,727 | 722,772 | 727,272

# Rounding

Rounding 67,286 to the nearest ten thousand would mean using the number of thousands (7) and this is greater than or equal to 5, so it is rounded up to the next ten thousand (70,000) so it is rounded to 70,000.

**60** 

**Answers** 

Read and Write

Six hundred and twenty-four thousand, one hundred and four

723,613

Solve Problems

5 × 200 or 50 × 20

6°C

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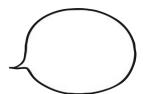
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Counting

Use negative numbers in context, and calculate

intervals across zero.

What number is twelve less than seven?



Explain why -12 + 7 is -5 and not -19.

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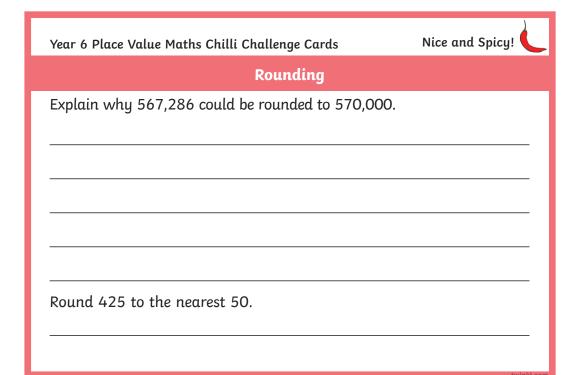
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Place Value

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

7,261,093

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Compare and Order					
Order and compare numbers to at least 10,000,000					
and determine the value of each digit. Write <, > or =					
5,151,515 5,151,155					
Order the following: 2,722,727, 277,277, 2,727,272, 2,722,772					
smallest	greatest				
	twinkl.com				



Read and Write

Read and write numbers to at least 10,000,000 and determine the value of each digit.

1,214,621

two million, eight hundred and thirty thousand and twenty

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### Solve Problems

Solve number and practical problems that involve all of the other objectives.

Which 2 numbers can be multiplied to equal one hundred thousand?

50 500 2000 20,000

The temperature at the bottom of a mountain is 9°C, but at the top it is -13°C. What is the difference between the temperature at the top and bottom of the mountain?

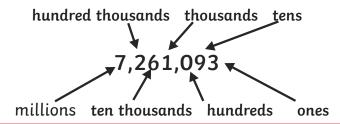
# **Answers**

# Counting

-5

Because starting at -12 and adding 7 will mean counting towards 0, so -11, -10, -9 etc. If the answer were -19 then the counting would go -13, -14, but this is subtracting not adding.

Place Value



# **Answers**

Compare and Order

5,151,515 > 5,151,155

277,277 | 2,722,727 | 2,722,772 | 2,727,272

# Rounding

Rounding 567,286 to the nearest ten thousand would mean using the number of thousands (7) and this is greater than or equal to 5, so it is rounded up to the next ten thousand (70,000) so it is rounded to 570,000.

450

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#### **Answers**

Read and Write

One million, two hundred and fourteen thousand, six hundred and twenty-one

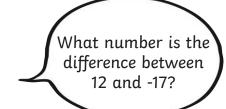
2,830,020

Solve Problems 50 and 2000 22°C Year 6 Place Value Maths Chilli Challenge Cards

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# Counting

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



Explain why -12 -7 is -19 and not -5.

A man has £12 in cash and owes a friend £20. How much money has the man?

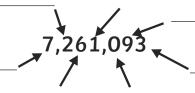
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### Place Value

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



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# Compare and Order

Order and compare numbers to at least 10,000,000 and determine the value of each digit.

When comparing 5,151,515 and 5,151,155, what is the place value of the digit which will tell which is greater?

Explain the reasons you would use to order the following numbers: 2,722,727, 277,277, 2,727,272, 2,722,772

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# Rounding

Round any whole number to a required degree of accuracy.

Explain why 2,567,286 could be rounded to 2,600,000.

Round 3250 to the nearest 500.

The population of London is 8.674 million.

To what number would you round the population of London when writing about London, giving your reasons.

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### Read and Write

Read and write numbers to at least 10,000,000 and determine the value of each digit.

Write half of this number using words: 4,208,092

Write fifty five thousand more than this number in numerals.

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# Solve Problems

Solve number and practical problems that involve all of the other objectives.

Which 2 numbers can be multiplied to equal twenty million?

500

5000

40.000

400,000

The temperature at the bottom of a mountain is 9°C, but at the top it is -13°C. Half way up the mountain the temperature is halfway between the temperatures at the top and bottom. What is the temperature half way up the mountain?

### **Answers**

Counting

29degrees

Because starting at -12 and subtracting 7 will lead you away from 0, so -13, -14, etc If the answer were 5, then the counting would be going towards 0 so this would be adding and not subtracting.

-£8

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### **Answers**

Place Value

hundred thousands thousands tens

7,261,093 millions ten thousands hundreds

Compare and Order

The hundreds digit (500)

Answers will vary depending on the methods children have used.

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#### **Answers**

Rounding

The number could be rounded to the nearest hundred thousand.

3500

Accept all suitable explanations.

Read and Write

Two million, one hundred and four thousand and forty-six.

2,159,046

Solve Problems

500 x 40,000

-2°C