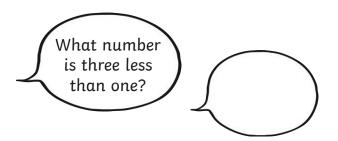


Nice and Spicy!

## Counting

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



"Count forwards from -3."

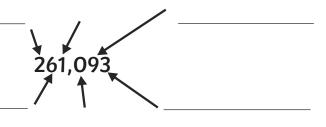
-3, \_\_\_\_\_, \_\_\_\_, 0, \_\_\_\_\_, 2, \_\_\_\_\_,

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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.



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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 =

151,515 151,155

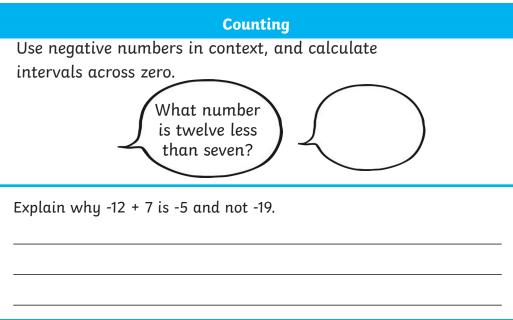
Order the following: 722,727, 27,277, 727,272, 722,772

smallest		greatest

Year 6 Place Value Maths Chilli Challenge Cards	Nice and Spicy!	Year 6 Place Value Maths Chilli Challenge Cards Nice and Spicy!
Rounding		Read and Write
Explain why 67,286 could be rounded to 70,000.  Round 50 to the nearest 20.		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
Year 6 Place Value Maths Chilli Challenge Cards	Nice and Spicy!	Year 6 Place Value Maths Chilli Challenge Cards It's getting hot!
Solve Problems		Counting
Solve number and practical problems that involve all of the other objectives.  Which 2 numbers can be multiplied to equal one thousand?		Use negative numbers in context, and calculate intervals across zero.  What number

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?

\*\*REGENT STUDIES\*\*
Focused education on life's walking the state of the pond is 4°C. The temperature?



It's getting hot! Year 6 Place Value Maths Chilli Challenge Cards Place Value Read, write, order and compare numbers to at least 10,000,000 and determine the value of each digit. It's getting hot! Year 6 Place Value Maths Chilli Challenge Cards Rounding Explain why 567,286 could be rounded to 570,000.

Year 6 Place Value Maths Chilli Challenge Cards

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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

Explain why 567,286 could be rounded to 570,000.

Year 6 Place Value Maths Chilli Challenge Cards



#### 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



Round 425 to the nearest 50.

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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

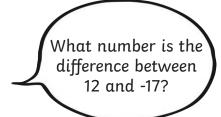
The temperature at the bottom of a mountain is  $9^{\circ}$ C, but at the top it is -13°C. What is the difference between the temperature at the top and bottom of the mountain?

Year 6 Place Value Maths Chilli Challenge Cards



# 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?

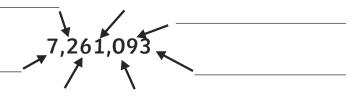
Year 6 Place Value Maths Chilli Challenge Cards

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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.



Year 6 Place Value Maths Chilli Challenge Cards



# 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

2,122,121, 211,211, 2,121,212, 2,122,112



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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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## **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?

Year 6 Place Value Maths Chilli Challenge Cards



#### 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.

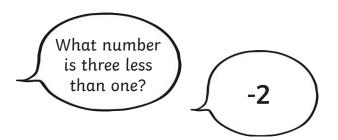




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## **Counting Answers**

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



"Count forwards from -3."

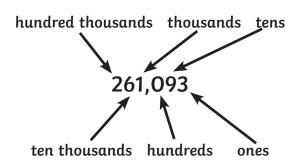
-3, -2, -1, 0, 1, 2, 3...

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## Place Value Answers

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



Year 6 Place Value Maths Chilli Challenge Cards

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## **Compare and Order Answers**

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

**27,277 722,727 722,772 727,272** smallest greatest



## **Rounding Answers**

Explain why 67,286 could be rounded to 70,000.

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.

Round 50 to the nearest 20.

**60** 

## Read and Write Answers

Read and write numbers to at least 100,000 and

determine the value of each digit.

624,104

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

723,613

Seven hundred and twenty-three thousand, six hundred and thirteen

Year 6 Place Value Maths Chilli Challenge Cards

Nice and Spicy!

## Solve Problems Answers

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

Which 2 numbers can be multiplied to equal one thousand?

5 × 200 or 50 × 20

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?

6°C

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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.

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.



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#### Place Value Answers

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

> hundred thousands thousands tens 261,093 ten thousands hundreds ones

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#### Place Value Answers

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

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

smallest greatest

Year 6 Place Value Maths Chilli Challenge Cards

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#### Place Value Answers

Explain why 567,286 could be rounded to 570,000.

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.

Round 425 to the nearest 50.

450



Year 6 Place Value Maths Chilli Challenge Cards

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## Place Value Answers

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

1.214.621

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

two million, eight hundred and thirty thousand and twenty 2,830,020

It's getting hot!



#### **Solve Problems Answers**

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 **50 and 2000** 

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?

22°C

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## **Counting Answers**

Use negative numbers in context, and calculate

intervals across zero.

What number is the difference between 12 and -17?

29 degrees

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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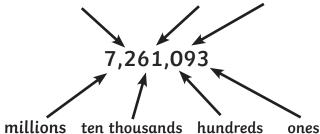
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## Place Value Answers

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

hundred thousands thousands tens



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# Compare and Order Answers

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?

The hundreds digit (500)

Explain the reasons you would use to order the following numbers:

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

Answers will vary depending on the methods children have used.

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## **Rounding Answers**

Round any whole number to a required degree of accuracy.

The number could be rounded to the nearest hundred thousand.

Round 3250 to the nearest 500. 3500

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.

Accept all suitable explanations.

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## Solve Problems Answers

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

Which 2 numbers can be multiplied to equal twenty million?

500 x 40,000

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? -2°C

Year 6 Place Value Maths Chilli Challenge Cards



## Read and Write Answers

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

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

Write fifty five thousand more than this number in numerals.

2,159,046

