

# Maths Revision & Practice Booklet

Name: \_\_\_\_\_

## Number and Place Value

# Revise

## Read and Write Numbers

All numbers are made up of digits. To be able to read and write a large number, we need to know the place value of each digit.

A digit becomes ten times greater as the place value position moves to the left.

Remember that commas or spaces are used in larger numbers to make them easier to read or write, and zeroes are used as place value holders.

<b>Ten Millions</b> 10,000,000	<b>Millions</b> 1,000,000	<b>Hundred Thousands</b> 100,000	<b>Ten Thousands</b> 10,000	<b>Thousands</b> 1,000	<b>Hundreds</b> 100	<b>Tens</b> 10	<b>Ones</b> 1
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## Order and Compare Numbers

When ordering a set of numbers, we compare the place value of the digits in each number, starting with the digits in the largest place value position.

If numbers have the same digit in a place value position, we look at the digits in the place value position to the right until we find a difference. It is sometimes useful to line the numbers up vertically and align the place value columns.

## Round Whole Numbers

Rounding can make it easier to talk about, understand and work with numbers.

We can round numbers to estimate answers or to explain how near a number is to another number. We round whole numbers to different powers of ten.

Remember to look at the digit immediately to the right of the place value position you are rounding to.

When comparing numbers, we can use symbols **< (less than)** and **> (greater than)** to show which is the smaller or the greater number.



If the digit immediately to the right of the place value position you are rounding to is **0, 1, 2, 3 or 4**, we round the number **down**.

If the digit immediately to the right of the place value position you are rounding to is **5, 6, 7, 8 or 9**, we round the number **up**.

# Revise

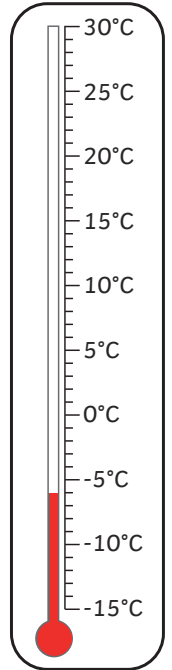
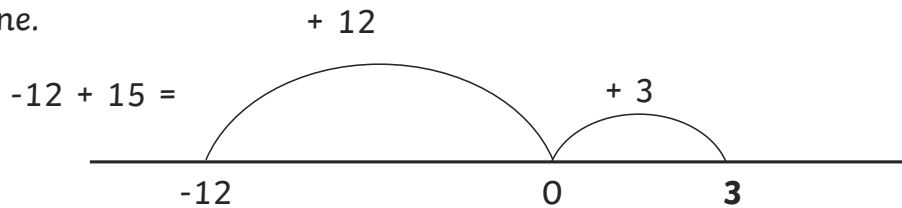
## Use Negative Numbers

Negative numbers are numbers below zero.

They are expressed with a negative sign before the number.

The greater the negative number, the further below zero it is.

When solving a problem that involves crossing zero, it can be useful to draw a number line.



## Read Roman Numerals

Roman numerals originated in ancient Rome. Today, we see Roman numerals in many ways. They can be used to identify kings and queens, on the credits of television programmes or on analogue clocks.

Roman numerals are based on seven different symbols that are combined to represent different values.

Symbol	I	V	X	L	C	D	M
Value	1	5	10	50	100	500	1,000

When a **smaller symbol** is **after** a greater symbol, we use addition:

VI = 6 because we read the symbols as 5 + 1.

When a **smaller symbol** is **before** a greater symbol, we use subtraction:

IX = 9 because we read the symbols as 10 - 1.

# Practise

Supercharge your number and place value powers by answering these questions.

1. Write the number 654,082 in words.

\_\_\_\_\_

2. Look at this number.

35,094,206

Write the digit that is in the ten thousands place.

Write the digit that is in the millions place.

3. The numbers in the sequence decrease by the same amount each time.

**1,327,845**

**1,317,845**

**1,307,845**

**1,297,845**

What number would come next in the sequence?

4. Write the number that is two hundred less than three million.

5. Write the number that is forty thousand less than three million.

1 mark



2 marks



1 mark



1 mark



1 mark



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# Practise

6. Round 1,307,845
- to the nearest **100** .....
- to the nearest **1,000** .....
- to the nearest **10,000** .....

2 marks



7. Complete the table and show the numbers rounded to the nearest thousand.

	rounded to the nearest thousand
1,297	
12,978	
129,784	
1,297,845	

2 marks



- 8.



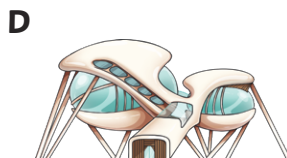
£217,086



£210,786



£217,806



£207,860



£217,860

1 mark



Order these prices starting with the lowest price.

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## Practise

9. Use the signs to make these correct. < >

129,784

129,704

45,329

46,329

3,407,056

3,400,956

10. Here are the temperatures of the superhero hideouts at 10 a.m. and 10 p.m.

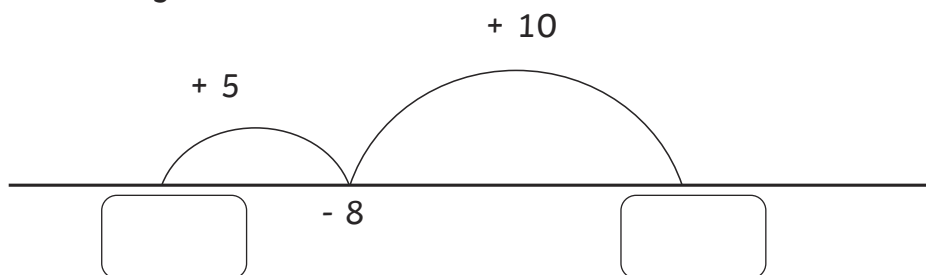
Superhero Hideout	Temperature	
	10 a.m.	10 p.m.
Ice Caves	-8°C	-21°C
Fire Cavern	32°C	23°C
Plasma Palace	-3°C	2°C
Hero Hideaway	-15°C	-9°C

At 10 p.m., how many degrees colder were the Ice Caves than Plasma Palace?

Which hideout was 9 degrees warmer at 10 a.m. than 10 p.m.?

11. Here is part of a number line.

Write the missing numbers in the boxes.



1 mark



2 marks



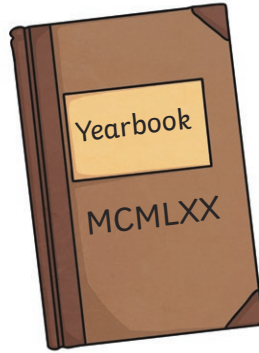
1 mark



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## Practise

12. The cover of this book has Roman numerals written on it.



Write MCMLXX in figures.

13. Look at these numbers written as Roman numerals.

Circle the smallest number.

**MDCLI**

**MCMIV**

**MMCCC**

**MMCCL**

What is the value of the greatest number?

14. Look at these Roman numerals.

**CCCLXXXII**

Write the number in figures.

1 mark



1 mark



1 mark



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# Self-Assessment

Colour in the superhero strength-o-meter to show how you feel about each of these statements:

**I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.**

☐☐☐☐☐☐

**I can round any whole number to a required degree of accuracy.**

☐☐☐☐☐☐

**I can use negative numbers in context and calculate intervals across zero.**

☐☐☐☐☐☐

**I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.**

☐☐☐☐☐☐

**I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.**

☐☐☐☐☐☐

**Comments**