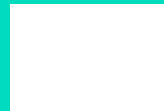


# Maths Mastery

Read, Write, Order and Compare Numbers  
up to 1 000 000



# Read

Work with a partner:

One partner writes down a six-digit number.

The other reads the number.

If they read it correctly, they write a number for the first partner.

Include some zeros to challenge.



# Write

Work with a partner:

One partner writes down a hidden six-digit number and reads it for the other.

The other partner writes it down. Check the numbers match.

If they are the same, swap roles.

If incorrect, check it has been read correctly.



# Order

If the digits 1 and 2 were chosen:

11111	121111	211111	221111
11112	121112	211112	221112
11121	121121	211121	221121
11122	121122	211122	221122
11211	121211	211211	221211
11212	121212	211212	221212
11221	121221	211221	221221
11222	121222	211222	221222
112111	122111	212111	222111
112112	122112	212112	222112
112121	122121	212121	222121
112122	122122	212122	222122
112211	122211	212211	222211
112212	122212	212212	222212
112221	122221	212221	222221
112222	122222	212222	222222



# Compare

Work with a partner:

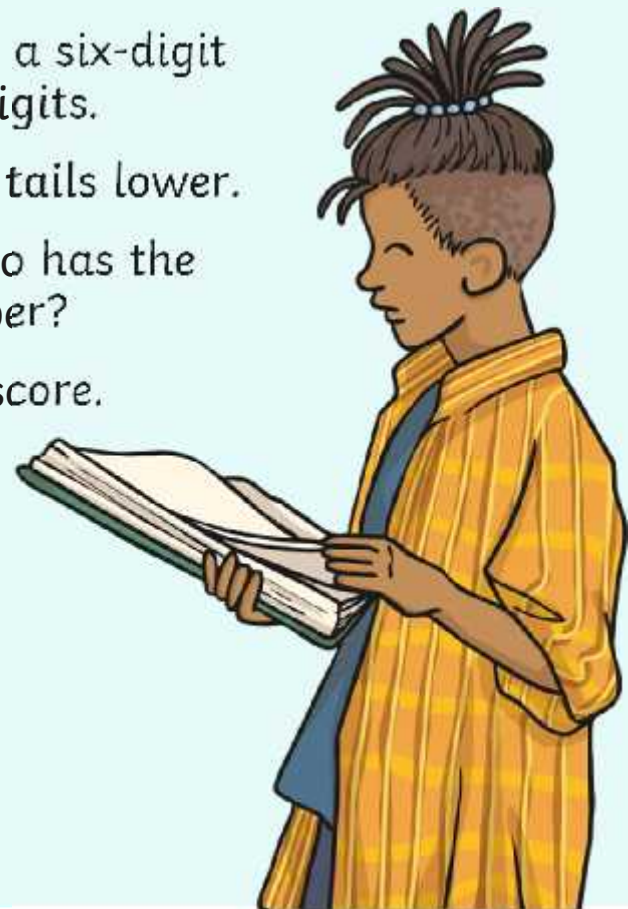
Choose six digit cards each.

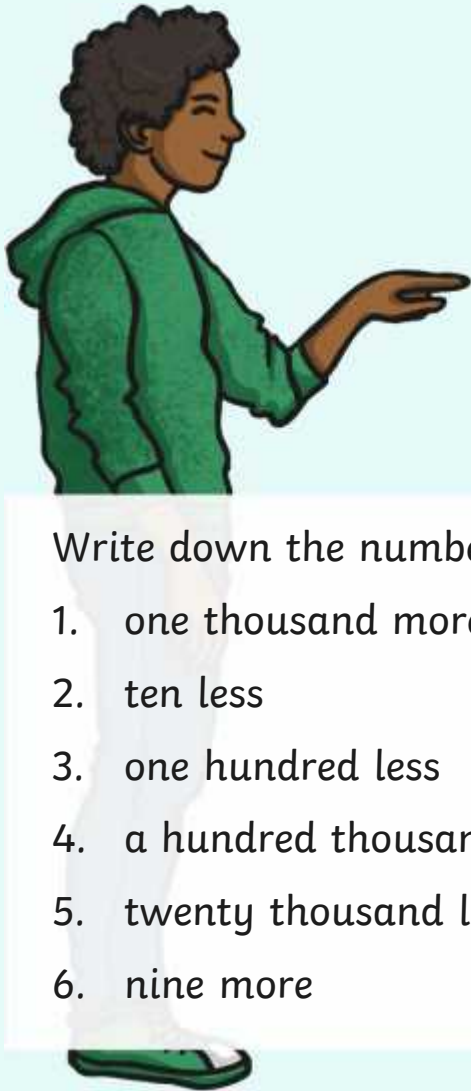
Both partners write and hide a six-digit number using the six digits.

Toss a coin – heads is higher, tails lower.

Compare the numbers – who has the higher or lower number?

Remember to keep the score.





# Value

Here is a 6-digit number:

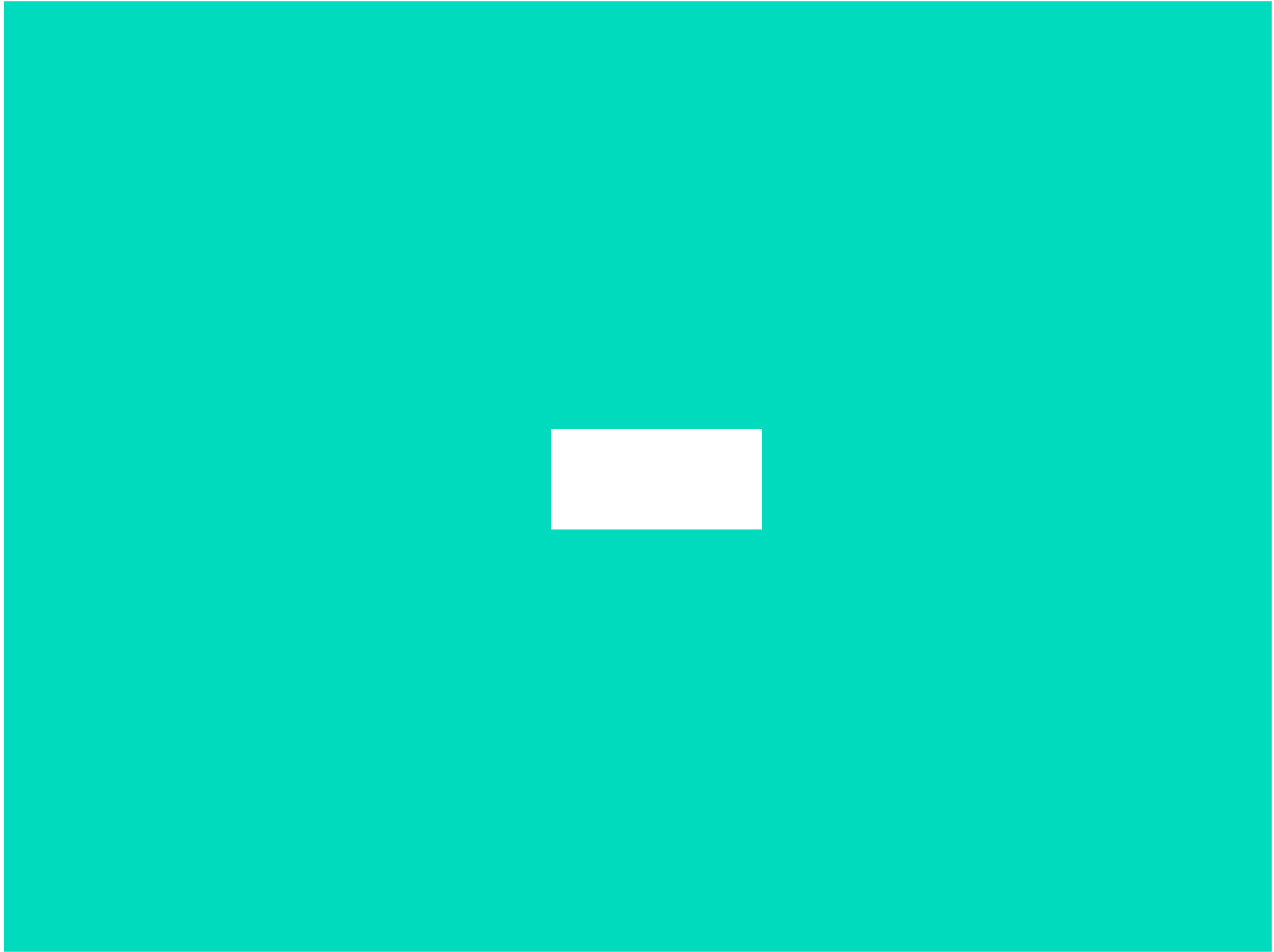
123 456

Write down the numbers that are:

1. one thousand more **124 456**
2. ten less **123 446**
3. one hundred less **123 356**
4. a hundred thousand more **223 456**
5. twenty thousand less **103 456**
6. nine more **123 465**

With a calculation, how can you reverse the last:

- three digits **+ 198**  
four digits **+ 3087**  
five digits **+ 41 976**  
six digits **+ 530 865**



# Read and Write Numbers

LO: I can read and write numbers.

1. Write the following numbers in words:

4819 \_\_\_\_\_

3008 \_\_\_\_\_

5191 \_\_\_\_\_

2. Write the following numbers in numerals:

Three thousand and sixteen

Nine thousand, four hundred and twenty-six

Seven thousand, eight hundred and forty

3. For each number below, explain the mistake in writing the number in words.

2019 = two thousand and ninety

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6970 = six hundred and ninety-seven

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4. For each number below, explain the mistake in writing the number in numerals.

Six thousand, four hundred and nine = 649

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One thousand, four hundred and twenty-one = 1241

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# Read and Write Numbers

LO: I can read and write numbers.

1. Write the following numbers in words:

56 012 \_\_\_\_\_

30 070 \_\_\_\_\_

89 329 \_\_\_\_\_

2. Write the following numbers in numerals:

Seventeen thousand and sixty

Twenty-four thousand, nine hundred and twenty-two

Ninety thousand, three hundred and fourteen

3. For each number below, explain the mistake in writing the number in words.

40 912 = four thousand, nine hundred and twenty

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17 902 = one thousand, seven hundred and ninety-two

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4. For each number below, explain the mistake in writing the number in numerals.

Sixty-six thousand, six hundred and sixteen = 66 166

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Eighty-one thousand, one hundred and eighteen = 8118

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# Read and Write Numbers

LO: I can read and write numbers.

Work with a partner, checking your work together.

1. Ask your partner to write three numbers in numerals, of four or five digits. Read the numbers to your partner.

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2. Ask your partner to write three numbers in words, of four or five digits. Read the numbers to your partner and write the number in numerals.


3. Write three numbers of your own in numerals, of four or five digits. Read them in turn to your partner and write them in numerals and words:

My numbers	My partner's numbers	

4. On your partner's sheet, write a number in words and then write it in numerals making a mistake.

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On your own sheet explain the mistake made by your partner.

Mistake: \_\_\_\_\_

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# Read and Write Numbers

5. On your partner's sheet, write a number in numerals and then write it in words making a mistake.

---

Mistake: \_\_\_\_\_

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# Read and Write Numbers Answers

## Page1

- 4819 - four thousand, eight hundred and nineteen  
3008 - three thousand and eight  
5191 - five thousand, one hundred and ninety-one
- Three thousand and sixteen - 3016  
Nine thousand, four hundred and twenty-six - 9426  
Seven thousand, eight hundred and forty - 7840
- 2019 = two thousand and ninety - 19 has been written ninety (90) but should be nineteen.  
The answer is two thousand and nineteen.  
6970 = six hundred and ninety seven - The zero has been ignored so the place value has been misread. The 6 is six thousand not six hundred, the 9 is nine hundred not ninety and the 7 is seventy not seven. The answer is six thousand, nine hundred and seventy.
- Six thousand, four hundred and nine = 649  
The zero (no tens) has been missed out. The six thousands and four hundreds have been written as six hundreds and four tens. The answer is 6409.  
One thousand, four hundred and twenty-one = 1241  
The 2 and 4 have been mixed up. There are four hundreds, but the 2 has been used. There are 2 tens, but the 4 has been used. The answer is 1421.

## Page2

- 56 012 - fifty-six thousand and twelve  
30 070 - thirty thousand and seventy  
89 329 - eighty nine thousand, three hundred and twenty-nine
- Seventeen thousand and sixty- 17 060  
Twenty-four thousand, nine hundred and twenty-two- 24 922  
Ninety thousand, three hundred and fourteen - 90 314
- 40 912 = four thousand, nine hundred and twenty - The forty (40) thousand has been written as four thousand, and the twelve (12) at the end of the number has been written as twenty (20). The answer is forty thousand, nine hundred and twelve.  
17 902 = one thousand, seven hundred and ninety two - The zero has been ignored so the place value has been misread. The 17 is seventeen thousand not one thousand, seven hundred; the 9 is nine hundred not ninety. The answer is seventeen thousand, nine hundred and two.
- Sixty-six thousand, six hundred and sixteen = 66 166  
The one has been placed in the wrong place. The sixteen (16) needs to be in the final two places. The answer is 66 616.  
Eighty-one thousand, one hundred and eighteen = 8118  
The number should have five digits, the answer being 81 118. There are several possible reasons for the incorrect answers: simply missing out a digit (1 in hundreds or tens place), misunderstanding the need to have three digits after the 81 and only putting 18 to represent 118, or reading eighteen as 80 and missing off the 0.

# Read and Write Numbers

LO: I can read and write numbers.

1. Write the following numbers in words:

209 817

\_\_\_\_\_

500 040

\_\_\_\_\_

120 371

\_\_\_\_\_

2. Write the following numbers in numerals:

Seventeen thousand and sixty

Twenty-four thousand, nine hundred and twenty-two

Ninety thousand, three hundred and fourteen

3. For each number below, explain the mistake in writing the number in words.

710 981 = seventy one thousand, nine hundred and eighteen

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

511 007 = fifty-one and one thousand, seven hundred.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. For each number below, explain the mistake in writing the number in numerals.

Two hundred and six thousand, nine hundred and twenty = 26 900 20

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Three hundred thousand, six hundred and sixty = 366

\_\_\_\_\_

\_\_\_\_\_

# Read and Write Numbers

LO: I can read and write numbers.

Work with a partner, checking your work together.

1. Ask your partner to write three six-digit numbers in numerals. Read the numbers to your partner.

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2. Ask your partner to write three six-digit numbers in words. Read the numbers to your partner and write the number in numerals.


3. Write three six-digit numbers of your own in numerals. Read them in turn to your partner and write them in numerals and words:

My numbers	My partner's numbers	

4. On your partner's sheet, write a six-digit number in words and then write it in numerals making a mistake.

\_\_\_\_\_

On your own sheet explain the mistake made by your partner.

Mistake: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Read and Write Numbers

5. On your partner's sheet, write a number in numerals and then write it in words making a mistake.

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Mistake: \_\_\_\_\_

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# Read and Write Numbers Answers

1. 209 817 - two hundred and nine thousand, eight hundred and seventeen

500 040 - five hundred thousand and forty

120 371 - one hundred and twenty thousand, three hundred and seventy-one

2. Seven hundred and thirteen thousand and forty-nine - 713 049

One hundred and forty-four thousand, two hundred and ninety-two - 144 292

Six hundred and ninety thousand and seven - 690 007

3. 710 981 = seventy one thousand, nine hundred and eighteen

The zero has been missed out so seven hundred and ten thousand has been written as seventy one thousand. The eighty-one (81) at the end of the number has been written as eighteen (18) mixing up the 8 and 1. The answer is seven hundred and ten thousand, nine hundred and eighty-one.

511 007 = fifty-one and one thousand, seven hundred.

The five hundred and eleven (thousand) has been mistakenly written as fifty-one and one, showing a misunderstanding of the place value of the 5 and first 1, which are hundred thousands and ten thousands. Also the final seven has been written as seven hundred, when it is in the ones place so has a value of seven. The answer is five hundred and eleven thousand and seven.

4. Two hundred and six thousand, nine hundred and twenty = 26 900 20

The zero in two hundred and six (206) has been missed out. The nine hundred has been written without writing the twenty as part of this section of the number. Nine hundred and twenty is written 920 without the extra zeros. The answer is 206 920.

Three hundred thousand, six hundred and sixty = 366

All the zeros are missing. The three hundred thousand is missing the zeros and the six hundred and sixty is written 66, so is also missing a zero, as it should be 660. The combination of this error is that the three is no longer even thousands but simply hundreds. The answer is 300 660.



# Read and Write Numbers

LO: I can read and write numbers.

1. Explain possible mistakes that can be made when writing the number three hundred and six thousand, two hundred and fifteen in numerals.

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2. Write instructions in the space below showing how to write the number 405 912 in words.

3. Calculate the answer to these without writing the numbers in numerals:

Two hundred and sixty-five thousand, nine hundred and six add four hundred and sixteen thousand and forty-seven equals.

4. What is the difference between three hundred and eighty thousand, two hundred and seventy-four and eight hundred and thirty-seven thousand, three hundred and ninety-one?

# Read and Write Numbers

LO: I can read and write numbers.

Work with a partner, checking your work together.

1. Each write three digits. Combine the digits and each write the largest number possible in numerals and words.

\_\_\_\_\_

Repeat, writing the smallest number in words and numerals.

\_\_\_\_\_

Repeat writing the number closest to 500 000.

\_\_\_\_\_

Try closest to other numbers.

\_\_\_\_\_

\_\_\_\_\_

2. Each write a six-digit number in numerals. Calculate and write the sum and difference in words.

Each write a six-digit number in words. Calculate and write the sum and difference in words.

Each write a six-digit number in numerals. Calculate and write the number half way between the numbers in words.

# Read and Write Numbers **Answers**

1. Answers will vary
2. Answers will vary
3. Six hundred and eighty-one thousand, nine hundred and fifty-three.
4. Four hundred and fifty-seven thousand, one hundred and seventeen.

# Order and Compare Numbers

Aim: I can order and compare numbers.

1. Use the following symbols to compare the following numbers:  $<$ ,  $=$  or  $>$

$$2783 \quad \square \quad 2873$$

$$3041 \quad \square \quad 3014$$

$$9377 \quad \square \quad 9773$$

2. Order the following sets of numbers from smallest to largest:

3838, 3883, 8388, 8838, 3383

--	--	--	--	--

6701, 6071, 1076, 1067, 7016

--	--	--	--	--

9008, 8009, 908, 8090, 9080

--	--	--	--	--

3. Explain why  $6581 > 6518$ .

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4. Explain how to order the following numbers from smallest to greatest: 4514, 451, 4415, 1445, 4414.

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# Order and Compare Numbers

Aim: I can order and compare numbers.

A set of single-digit cards is required for these tasks.

Work with a partner, checking your work together.

## Compare

1. From a set of single-digit cards, deal four cards each. Use the cards to make a number.

Toss a coin. If the coin lands on heads, the greater number wins a point. If the coin lands on tails, the smaller number wins a point.

Keep a record of your score.

Write the numbers in your books with the relevant comparison symbol to keep a record.

2. Take it in turns to take four digit cards from a set.

Make a four-digit number and place it in the following grid.

Take it in turns to create a number. If a partner cannot put a number in the grid, the other player gains a point. Keep a record of your score.

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

# Order and Compare Numbers

Aim: I can order and compare numbers.

1. Use the following symbols to compare the following numbers:  $<$ ,  $=$  or  $>$

$$34\ 414 \quad \square \quad 34\ 144$$
$$56\ 656 \quad \square \quad 56\ 655$$
$$10\ 010 \quad \square \quad 11\ 010$$

2. Order the following sets of numbers from smallest to largest:

72 727, 27 727, 27 277, 77 227, 72 272

--	--	--	--	--

61 234, 61 423, 6432, 62 431, 62 143

--	--	--	--	--

39 009, 30 090, 30 900, 39 090, 30 009

--	--	--	--	--

3. Explain why  $78\ 632 > 78\ 362$ .

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4. Explain how to order the following numbers from smallest to greatest: 87 878, 88 787, 88 887, 87 787, 78 778.

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# Order and Compare Numbers

Aim: I can order and compare numbers.

A set of single-digit cards is required for these tasks.

Work with a partner, checking your work together.

## Compare

1. From a set of single-digit cards, deal five cards each. Use the cards to make a number.

Toss a coin. If the coin lands on heads, the greater number wins a point. If the coin lands on tails, the smaller number wins a point.

Keep a record of your score.

Write the numbers in your books with the relevant comparison symbol to keep a record.

2. Take it in turns to take four digit cards from a set.

Make a five-digit number and place it in the following grid.

Take it in turns to create a number. If a partner cannot put a number in the grid, the other player gains a point. Keep a record of your score.

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

# Order and Compare Numbers

Aim: I can order and compare numbers.

1. Use the following symbols to compare the following numbers:  $<$ ,  $=$  or  $>$

$$676\ 767 \quad \square \quad 677\ 767$$

$$100\ 010 \quad \square \quad 10\ 100$$

$$782\ 391 \quad \square \quad 782\ 481$$

2. Order the following sets of numbers from smallest to largest:

320 023, 302 023, 323 230, 302 203, 323 203

--	--	--	--	--

110 011, 101 101, 10 101, 10 011, 101 001

--	--	--	--	--

785 392, 857 392, 587 392, 578 392, 758 392

--	--	--	--	--

3. Explain why  $382\ 562 > 380\ 652$ .

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4. Explain how to order the following numbers from smallest to greatest: 656 566, 665 656, 665 565, 655 556, 565 665.

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# Order and Compare Numbers

Aim: I can order and compare numbers.

A set of single-digit cards is required for these tasks.

Work with a partner, checking your work together.

## Compare

1. From two sets of single-digit cards, deal six cards each. Use the cards to make a number.  
Toss a coin. If the coin lands on heads, the greater number wins a point. If the coin lands on tails, the smaller number wins a point.  
Keep a record of your score.

## Order

2. Take it in turns to take six digit cards from a set.  
Make a six-digit number and place it in the following grid.  
Take it in turns to create a number. If a partner cannot put a number in the grid the other player gains a point. Keep a record of your score.

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

--	--	--	--	--

smallest

greatest

# Order and Compare Numbers

Aim: I can order and compare numbers.

Work with a partner, checking your work together.

## Compare

1. Each partner writes a number on a small whiteboard or piece of paper, hidden from their partner. Each partner can ask, in turn, three questions of their partner, with yes or no answers. They then estimate whether their number is smaller or greater than their partner's number.

Keep a record of your score.

Write the numbers in your books with the relevant comparison symbol to keep a record.

## Order

2. Cut out six small pieces of paper to fit the grid below. The activity is done without talking.

Each partner writes three numbers on a piece of paper, hidden from their partner. Take it in turns to place the numbers on the grid, keeping the numbers on the grid in order from smallest to greatest. If a partner cannot place one of their numbers, they can move an existing number on the grid instead.

The aim is to place all the numbers on the grid in the least amount of turns possible.

--	--	--	--	--

smallest

greatest

# Order and Compare Numbers

## Answers

### Lower Ability

1.  $2783 < 2873$   
 $3041 > 3014$   
 $9377 < 9773$

2.
 

3383	3838	3883	8388	8838
1067	1076	6071	6701	7016
908	8009	8090	9008	9080

3. Both 6581 and 6518 have six thousands and five hundreds. However, 6581 has eight tens, which is more than the one ten in 6518, so 6581 is greater than 6518.
4. All the numbers have four digits except 451, which only has three, or has no thousands, so is the smallest.

1445 only has one thousand, so is smaller than the other three remaining numbers, which all have four thousands.

The next largest numbers are 4414 and 4415, which have four hundreds, as the other, 4514, has five hundreds. 4414 and 4415 are consecutive numbers with 4414 the smaller as it has four ones and 4415 has five ones.

This leaves 4514 as the largest number. The order is: 451, 1445, 4414, 4415, 4514.

### Middle Ability

1.  $34\ 414 > 34\ 144$   
 $56\ 656 > 56\ 655$   
 $10\ 010 < 11\ 010$

2.
 

27\ 277	27\ 727	72\ 272	72\ 727	77\ 227
6432	61\ 234	61\ 423	62\ 143	62\ 431
30\ 009	30\ 090	30\ 900	39\ 009	39\ 090

3. Both 78 632 and 78 362 have seven ten thousands and eight thousands. However 78 632 has six hundreds, which is more than the three hundreds in 78 362, so 78 632 is greater than 78 362.
4. All the numbers have five digits. However, all have eight ten thousands except 78 778, which only has seven ten thousands so is the smallest number.

The two numbers 87 878 and 87 787 have seven thousands, so they are the next numbers in the sequence as the other numbers have eight thousands. 87 787 is smaller than 87 878 because it has seven hundreds compared to eight hundreds.

Of the final two numbers, 88 787 and 88 878, 88 787 is smaller as it has seven hundreds, which is less than the eight hundreds in 88 878.

The order is: 78 778, 87 787, 87 878, 88 787, 88 878.

# Order and Compare Numbers

## Answers

### Higher Ability

1.  $676\ 767 < 677\ 767$   
 $100\ 010 > 10\ 100$   
 $782\ 391 < 782\ 481$

2.

302 023	302 203	320 023	323 203	323 230
10 011	10 101	101 001	101 101	110 011
578 392	587 392	758 392	785 392	857 392

3. Both 382 562 and 380 652 have three hundred thousands and eight ten thousands. However 382 562 has two thousands, which is more than the 0 thousands in 380 652, so 382 562 is greater than 380 652.
4. All the numbers have six hundred thousands except 565 665, so this is the smallest.

Next, looking at the ten thousands, 655 556 and 656 566 have five ten thousand, whereas the other numbers have six ten thousands. The five thousands in 655 556 make it smaller than 656 566.

Finally 665 656 and 665 565 both have five thousands, but 665 565 has five hundreds, which is less than the six hundreds in 665 656.

The order is: 565 665, 655 556, 656 566, 665 565, 665 656.