## Order and Compare Numbers

Aim: I can order and compare numbers.

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

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 $6581>6518$.
$\qquad$
$\qquad$
4. Explain how to order the following numbers from smallest to greatest: 4514, 451, 4415, 1445, 4414.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## 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

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

smallest

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

smallest
greatest

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

smallest

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

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

72 727, 27 727, 27 277, 77 227, 72272


61 234, 61 423, 6432, 62 431, 62143

$39009,30090,30900,39090,30009$
$\square$
3. Explain why $78632>78362$.
$\qquad$
$\qquad$
4. Explain how to order the following numbers from smallest to greatest: $87878,88787,88$ 887, $87787,78778$.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## 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

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

smallest

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

smallest
greatest

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

smallest

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

## Order and Compare Numbers

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

2. Order the following sets of numbers from smallest to largest:
$320023,302023,323230,302$ 203, 323203


110 011, 101 101, 10 101, 10011,101001


785 392, 857 392, 587 392, 578 392, 758392

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

3. Explain why $382562>380652$.
$\qquad$
$\qquad$
4. Explain how to order the following numbers from smallest to greatest: 656 566, 665 656, 665 565, 655 556, 565665.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## 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

smallest

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

smallest
greatest

smallest
greatest

smallest

## 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

# 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.

1. $34414>34144$
$56656>56655$
$10010<11010$
2. 

| 27277 | 27727 | 72272 | 72727 | 77227 |
| :---: | :--- | :--- | :--- | :--- |
| 6432 | 61234 | 61423 | 62143 | 62431 |
| 30009 | 30090 | 30900 | 39009 | 39090 |

3. Both 78632 and 78362 have seven ten thousands and eight thousands. However 78632 has six hundreds, which is more than the three hundreds in 78362 , so 78 632 is greater than 78362.
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 87878 and 87787 have seven thousands, so they are the next numbers in the sequence as the other numbers have eight thousands. 87787 is smaller than 87878 because is has seven hundreds compared to eight hundreds.

Of the final two numbers, 88787 and 88878,88787 is smaller as it has seven hundreds, which is less than the eight hundreds in 88878.

The order is: $78778,87787,87878,88787$, 88878.

# Order and Compare Numbers Answers 

Higher Ability

1. $676767<677767$
$100010>10100$
$782391<782481$
2. 

| 302023 | 302203 | 320023 | 323203 | 323230 |
| :---: | :---: | :---: | :---: | :---: |
| 10011 10101 101001 101101 | 110011 |  |  |  |


| 578392 | 587392 | 758392 | 785392 | 857392 |
| :--- | :--- | :--- | :--- | :--- |

3. Both 382562 and 380652 have three hundred thousands and eight ten thousands. However 382562 has two thousands, which is more than the 0 thousands in 380 652, so 382562 is greater than 380652.
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 656566 have five ten thousand, whereas the other numbers have six ten thousands. The five thousands in 655556 make it smaller than 656566.

Finally 665656 and 665565 both have five thousands, but 665565 has five hundreds, which is less than the six hundreds in 665 656.

The order is: 565 665, 655 556, 656 566, 665 565, 665656.

