

# Year 6 Place Value Knowledge

|                                                             |                                                   |
|-------------------------------------------------------------|---------------------------------------------------|
| 10,000<br>ten thousand                                      | 100,000<br>one hundred thousand                   |
| 1,000,000<br>million                                        | 10,000,000<br>ten million                         |
| 247<br>200<br>40<br>7<br>partition                          | $\leftarrow -1012$<br>negative number             |
| 8.34 $\rightarrow$ 8.3<br>9.38 $\rightarrow$ 9.4<br>rounded | <br>interval                                      |
| <br>sequence                                                | 34152<br>$\downarrow$<br>12345<br>linear sequence |

## Numbers to Ten Million

**3 926 471**

| Millions | Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|----------|-------------------|---------------|-----------|----------|------|------|
| 3        | 9                 | 2             | 6         | 4        | 7    | 1    |

three million, nine hundred and twenty-six thousand, four hundred and seventy-one

3 926 471

3 500 000      426 300      171

0      1 000 000      2 000 000      3 000 000      4 000 000      5 000 000      6 000 000      7 000 000      8 000 000      9 000 000      10 000 000

## Compare and Order

| equals                                                         | greater than                                                                                                    | less than                                                                                                    |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| $26 + 38 = 8 \times 8$<br>Both calculations have the value 64. | $23\ 873 > 8256$<br>The number on the left has 2 ten thousands and the number on the right has 0 ten thousands. | $901\ 198 < 1\ 091\ 098$<br>The number on the right has 1 million and the number on the left has 0 millions. |

smallest      898      6735      6835      7019      9002      11 235      greatest

## Negative Numbers

-25 -24 -23 -22 -21 -20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

## Negative Numbers

$3 - 8 = -5$

$-6 + 11 = 5$

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

## Round Any Number

Rounding to the nearest 1000

|                        |                         |
|------------------------|-------------------------|
| 2000 $\leftarrow$ 2499 | 2500 $\rightarrow$ 3000 |
| round down             | round up                |

Rounding to the nearest 10 000

|                            |                             |
|----------------------------|-----------------------------|
| 20 000 $\leftarrow$ 24 999 | 25 000 $\rightarrow$ 30 000 |
| round down                 | round up                    |

Rounding to the nearest 100 000

|                              |                               |
|------------------------------|-------------------------------|
| 200 000 $\leftarrow$ 249 999 | 250 000 $\rightarrow$ 300 000 |
| round down                   | round up                      |

Rounding to the nearest 1 000 000

|                                  |                                   |
|----------------------------------|-----------------------------------|
| 2 000 000 $\leftarrow$ 2 499 999 | 2 500 000 $\rightarrow$ 3 000 000 |
| round down                       | round up                          |