

# Homework/Extension

## Step 7: Numbers to a Million

### National Curriculum Objectives:

Mathematics Year 5: (5N2) [Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit](#)

Mathematics Year 5: (5N6) [Solve number problems and practical problems that involve \(5N1\) \(5N2\) \(5N4\) \(5N5\)](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Write the number represented by the Gattegno chart in numerals only, using multiples of 10, 100 or 1,000.

**Expected** Write the number represented by the Gattegno chart in numerals and words for numbers up to 1,000,000.

**Greater Depth** Represent the given number using the Gattegno chart and write the number in numerals. Number given in words using unconventional partitioning.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Match one more number with the same value. Numbers up to 1,000,000 using multiples of 10, 100 or 1,000.

**Expected** Match two more numbers with the same value. Numbers up to 1,000,000.

**Greater Depth** Match two more numbers with the same value. Numbers up to 1,000,000. Options given in words using unconventional partitioning.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Make a 6-digit number from a set of clues using multiples 10, 100 or 1,000.

**Expected** Make a 6-digit number from a set of clues. Clues reference other clues.

**Greater Depth** Make a 6-digit number from a set of clues. Some clues to use unconventional partitioning given in words.

More [Year 5 Place Value](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

# Numbers to a Million

1. Write the number represented by the Gattegno chart below in numerals.

100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	300	200	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9



VF  
HW/Ext

2. Draw one more line to match the number 250,000 to another number of the same value.

250,000

250 thousands

25 tens

250 ones

250,000 ones



VF  
HW/Ext

3. Here are 6 digit cards. Place them in the boxes below to make a 6-digit number, using the following set of rules:



- The largest digit belongs in the 100,000 column.
- One of the 0 digits goes in the least valuable column.
- The remaining 0 goes in the last free column.
- The 1 digit goes in the column between 100,000 and 1,000.
- This number has 3 hundreds in it.
- The 7 digit is worth 7,000 in this number.

,



RPS  
HW/Ext

# Numbers to a Million

4. Write the number represented by the Gattegno chart below in both numerals and words.

100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	300	200	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9



VF  
HW/Ext

5. Draw two more lines to match the number 156,000 to other numbers of the same value.

156,000

156 thousands

16 tens

156,000 ones

1,506 ones

1,560 hundreds



VF  
HW/Ext

6. Here are 6 digit cards. Place them in the boxes below to make a 6-digit number, using the following set of rules:

6

8

3

1

7

4

- The 6 belongs in the thousands column.
- The number has three tens.
- 4 is in the column with the lowest value.
- The digit in the hundreds column is the sum of the digits in the tens and ones column.
- The remaining digits should be placed so that the 1 is in the highest value column.

,



RPS  
HW/Ext

# Numbers to a Million

7. Complete the Gattegno chart for the number below and write it in numerals:  
Thirty-six 10,000s, twenty-seven ones, one hundred and forty tens and eighty thousands.

100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	300	200	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9



VF  
HW/Ext

8. Draw two more lines to match the number 907,381 to other numbers of the same value.

907,381

ninety ten thousands + seven thousand, three hundred and eighty-one

nine hundred hundreds + seven thousand three hundred and eighty ones

seven hundred and thirty tens + nine hundred thousand and eighty-one

four hundred and sixty thousand and fifty-one + four hundred and forty-seven thousand, three hundred and thirty

nine thousand and seventy three tens + eighty-one



VF  
HW/Ext

9. Here are 6 digit cards. Place them in the boxes below to make a 6-digit number, using the following set of rules:

0
9
7
5
1
9

- The 7 digit should be in the least valuable column.
- The number has 909 tens.
- The remaining digits go into the most valuable columns.
- The number is greater than forty ten thousands.

,



RPS  
HW/Ext

# Homework/Extension Numbers to a Million

## Developing

1. **527,280**
2. **250,000 ones**
3. **817,300**

## Expected

4. **636,924; six hundred and thirty-six thousand, nine hundred and twenty-four**
5. **156,000 ones; 1,560 hundreds**
6. **186,734**

## Greater Depth

7.

100,000	200,000	300,000	<b>400,000</b>	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	<b>40,000</b>	50,000	60,000	70,000	80,000	90,000
<b>1,000</b>	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	300	200	<b>400</b>	500	600	700	800	900
10	<b>20</b>	30	40	50	60	70	80	90
1	2	3	4	5	6	<b>7</b>	8	9

**; 441,427**

8. **Seven hundred and thirty tens + nine hundred thousand and eighty-one; four hundred and sixty thousand and fifty one + four hundred and forty-seven thousand, three hundred and thirty**
9. **519,097**