Numbers to 1,000,000

1 Write the numbers that are shown on the place value grids.

a)

HTh	TTh	Th	H	T	O
●●●	●●	●●●●● ●●●●	●●●●	●	●●

329,412

b)

HTh	TTh	Th	H	T	O
	●●●●● ●●	●●	●●●		●●●●

72,304

2 Write each of the numbers in numerals.

a) one hundred and twenty-three thousand

123,000

b) four hundred and thirty-nine thousand, two hundred and eighty-six

432,286

c) ninety-seven thousand, one hundred and three

97,103

d) three hundred and five thousand, two hundred and forty-six

305,246

3 What is the value of each underlined digit?

a) 731,1<u>4</u>2 _____4 tens_____or__40_____

b) 2<u>4</u>,904 _____4 thousands__or___4000_____

c) 7,37<u>3</u> _____3 ones____or___3_____

d) <u>5</u>18,420 _____5 hundred thousand__or__300,000_

e) 112,30<u>4</u> _____4 ones___or__4_____

f) 35,<u>1</u>82 _____1 hundred__or____100_____

4 Using all six digit cards each time, write a number:

examples

a) that is even many | 785,934 |

different

b) that is odd answer | 785,943 |

| 7 | 8 | 5 |

c) that is a multiple of 5 | 349,785 |

| 3 | 4 | 9 |

d) that is greater than 500,000
but less than 700,000. | 587,349 |

5 a) Write in the missing numbers.

| 310,006 | 330,000 | 350,000 | 370,000 | 390000 |

300,000 ——↑——↓—— | 320,000 | —↓— | 340,000 | —↑— | 360,000 | —↓— | 380,000 | —↑—— 400,000
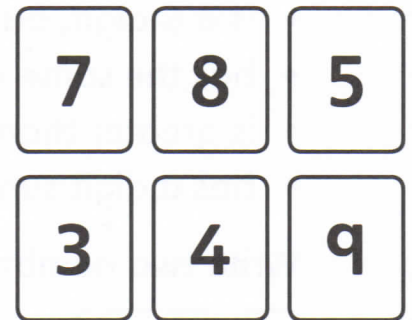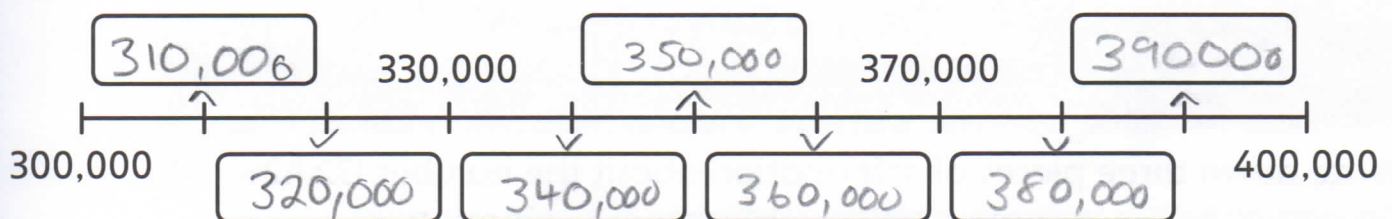
b) Estimate where the number 39,411 is on the number line.

39,411
↓

30,000 ——————————————————— 40,000
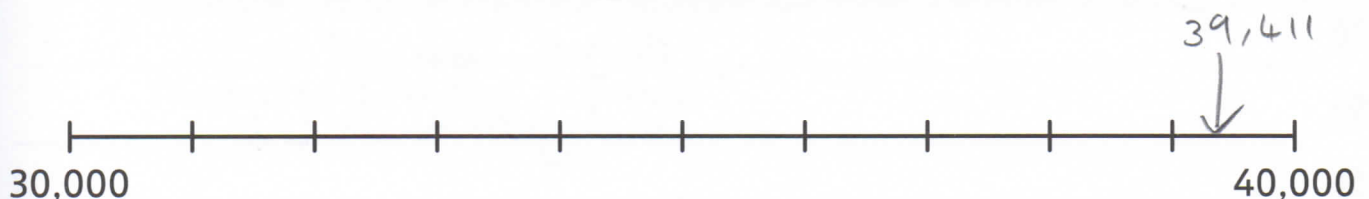
6 Write in the missing numbers. Start from the original number each time.

a)

Number	1,000 more	100 more	10 more	10 less
73,400	74,400	73,500	73,410	73,390

b)

Number	100,000 more	10,000 more	1,000 less	1,000 more
650,167	750,167	660,167	649,167	651,167

7 Max is thinking of a number. His number:

CHALLENGE

- is a 6-digit, odd number
- has the same number of 1,000s as 1s
- is greater than half a million — $> 500,000$
- has a digit sum of 26. — add each digit $= 26$

Write two numbers that could be Max's number.

603,773 and 715,355   many possible answers.

Reflect

Write down three pieces of information about the number 172,428.
Compare your information with your partner's information.

many answers   eg.   even
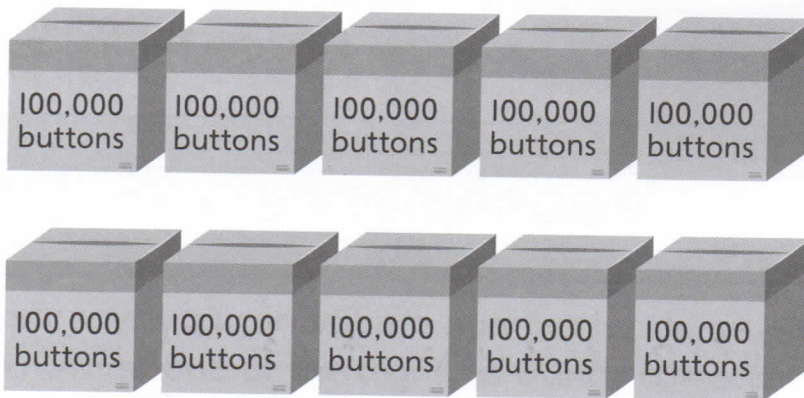digit sum is 24
6 digit number.

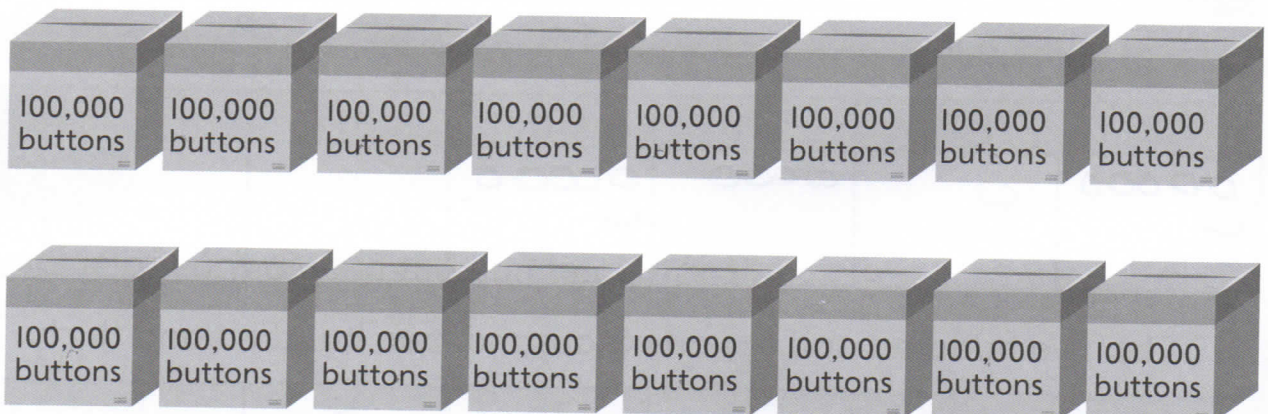# Numbers to 10,000,000 ①

① How many buttons are there?

a)

100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons
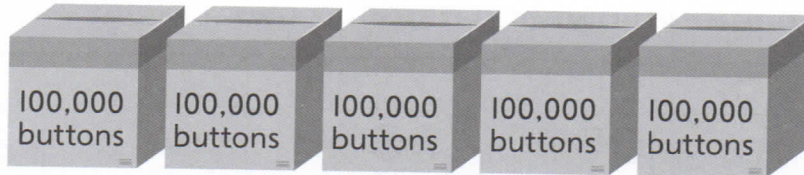
There are [500,000] buttons.

b)

100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons

100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons

There are [1,000,000] buttons.

c)

100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons

100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons · 100,000 buttons
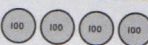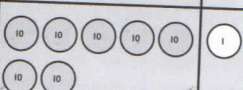
There are [1,600,000] buttons.
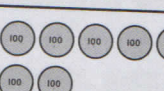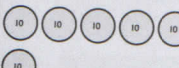
2 What numbers are shown on the place value grids?
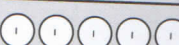
Write each number in numerals and in words.

a)

M	HTh	TTh	Th	H	T	O
1,000,000 1,000,000	100,000 100,000 100,000 100,000 100,000 / 100,000 100,000 100,000 100,000		1,000 1,000 1,000	100 100 100 100	10 10 10 10 10 1 / 10 10	1

$2,903,471$ Two million, nine hundred and three thousand, four hundred and seventy one.

b)

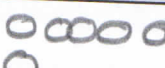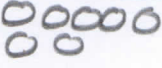| M	HTh	TTh	Th	H	T	O
1,000,000 1,000,000 1,000,000			1,000 1,000 1,000 1,000 1,000	100 100 100 100 100 / 100 100	10 10 10 10 10 / 10	1 1 1 1 1 1
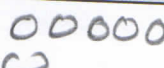
$3,005,765$ Three million, five thousand, seven hundred and sixtyfive

3 Draw counters on the place value grids to show each number.

a) 6,146,005

M	HTh	TTh	Th	H	T	O
o o o o o o	o	o o o o	o o o o o o			o o o o o

b) five hundred and seventy thousand, two hundred and thirty

M	HTh	TTh	Th	H	T	O
	o o o o o	o o o o o o o	o o		o o o	

4 Write each number in numerals.

a) one million, eighty-four thousand, three hundred

1,084,300

b) two million, two hundred and two thousand and two

2,202,002

c) ninety-two thousand and ninety-two

92,092

5 Write a number less than ten million that has:

- 6 as the first and last digits
- 43 thousands
- 5 hundreds
- no 10s.

643,506

6 Danny says you can tell if a number is odd or even just by knowing one of the digits. Is Danny correct? Explain your answer.

CHALLENGE

Yes. You only need to know the digit in the ones place.

Reflect

Write the value of each digit in the number 8,027,361.

8 million   3 hundred
20 thousad   6 tens
7 thousad   1 unit.

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