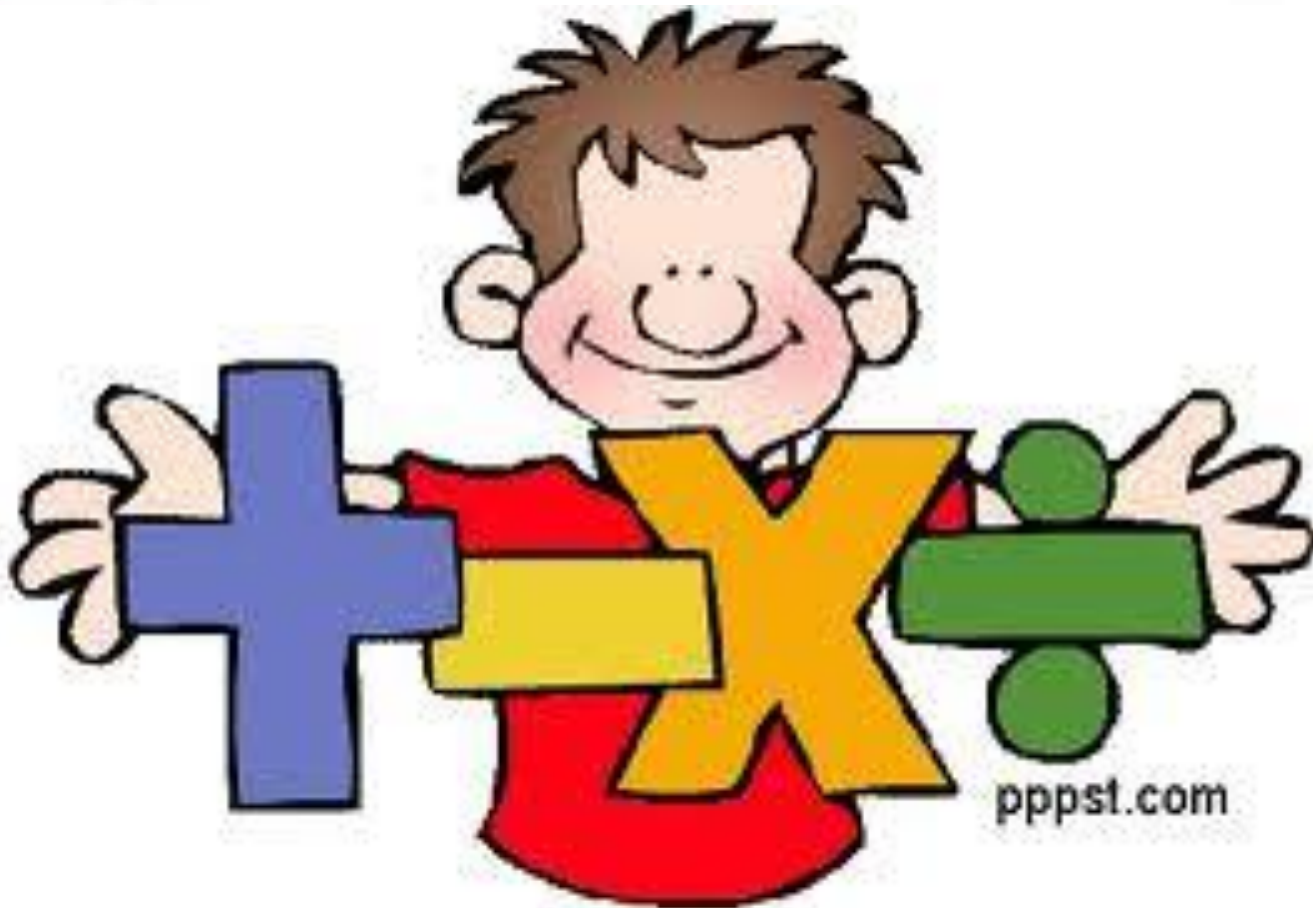


Natural numbers and place value



THE NATURAL NUMBER SET

The Natural Number Set is represented with the letter N

$$N = \{ 0, 1, 2, 3, \dots \}$$

This set is represented by the digits from 0, 1, 2, 3 ... through to infinity.

Natural Numbers are used for counting the elements of a set and describing the position of an element in a set.

Natural Numbers Representation

*Natural Numbers are represented
in a number line.*



Check this video:...



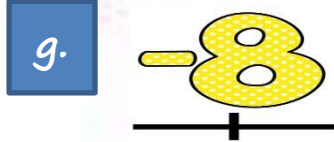
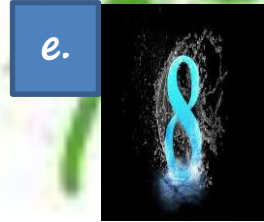
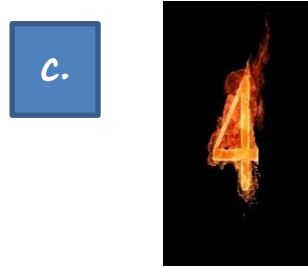
<https://www.youtube.com/watch?v=gsvrhKka1nc>

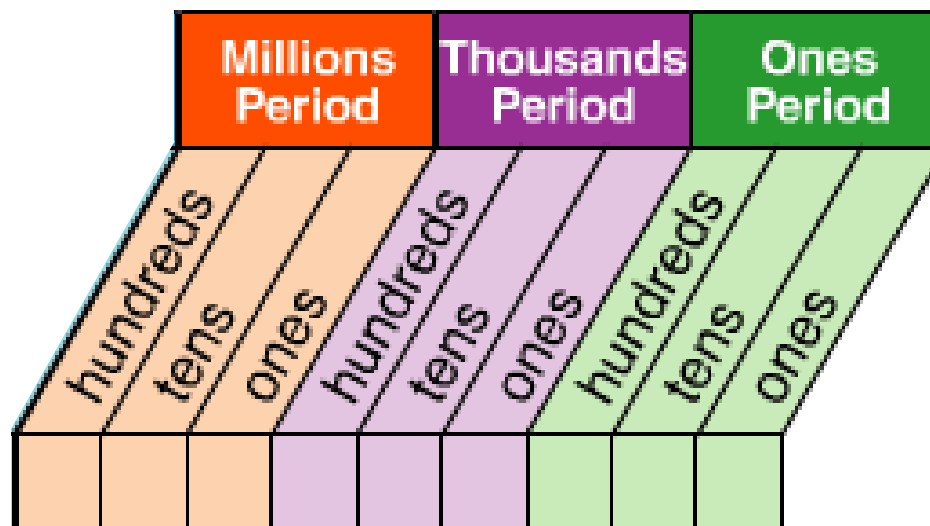
PLACE VALUE

Place value determines the value of a digit in a number, based on the location of the digit.

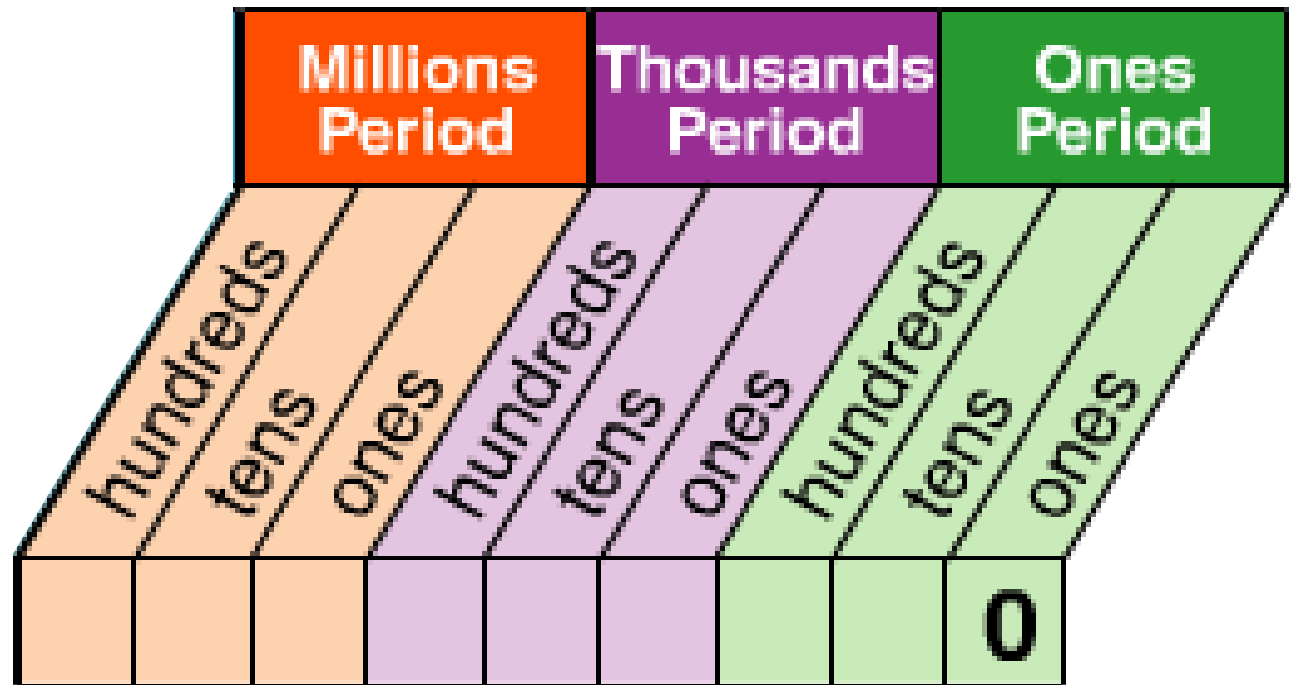


Make a circle for highlighting the natural numbers...



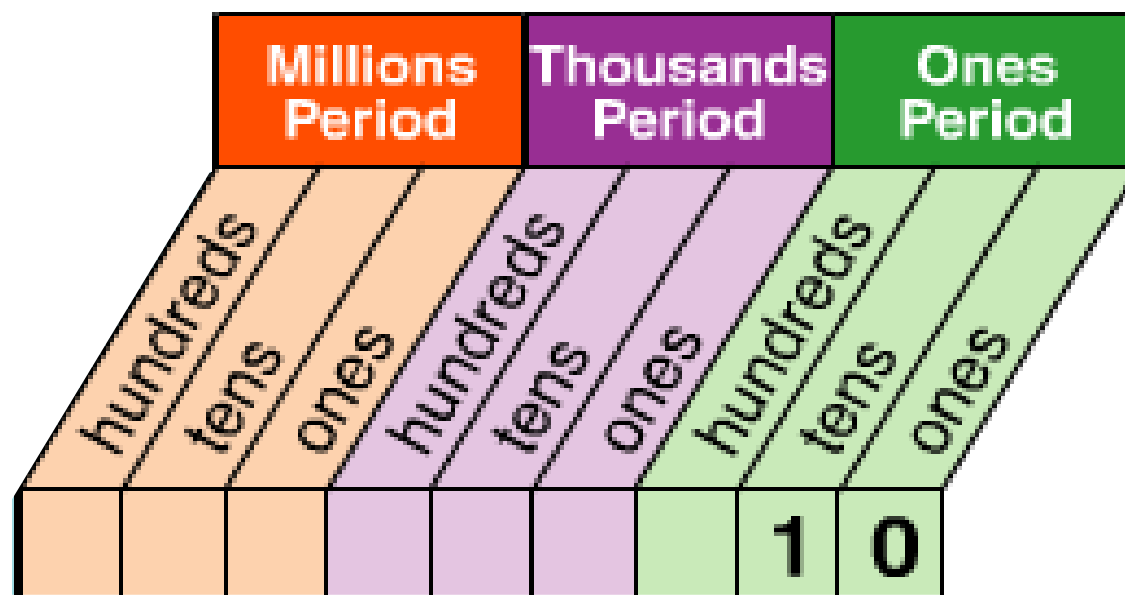


678,923,410



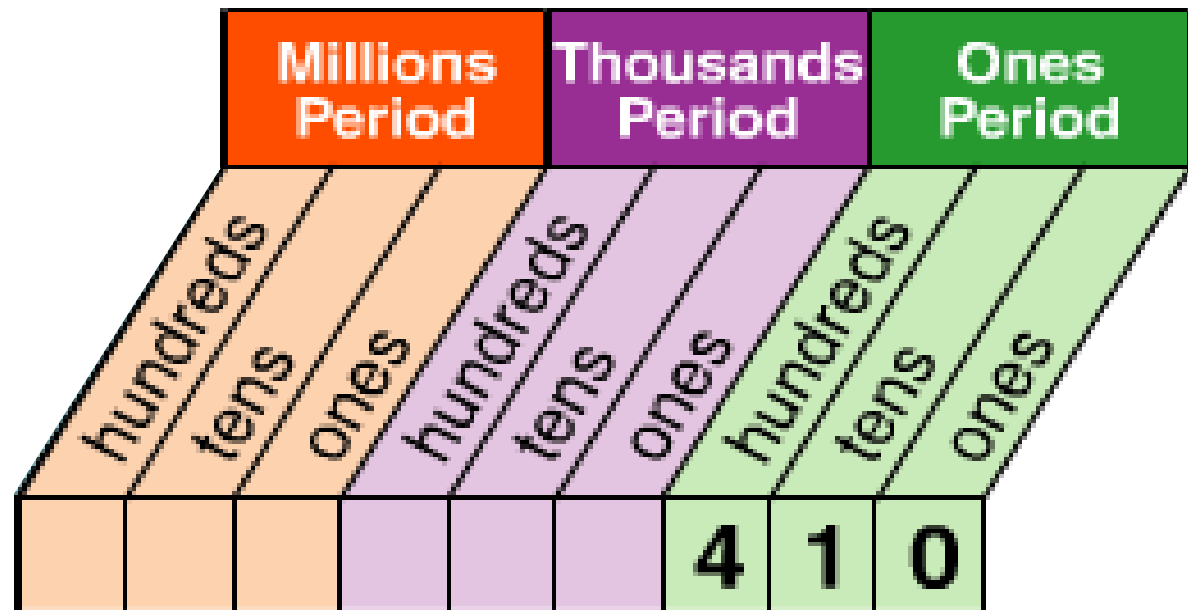
678,923,410

0 ones = 0



678,923,4**10**

1 ten = 10



678,923,410

4 hundreds = 400

| Millions Period | | | Thousands Period | | | Ones Period | | |
|-----------------|------|------|------------------|------|------|-------------|------|------|
| hundreds | tens | ones | hundreds | tens | ones | hundreds | tens | ones |
| | | | | | 3 | 4 | 1 | 0 |

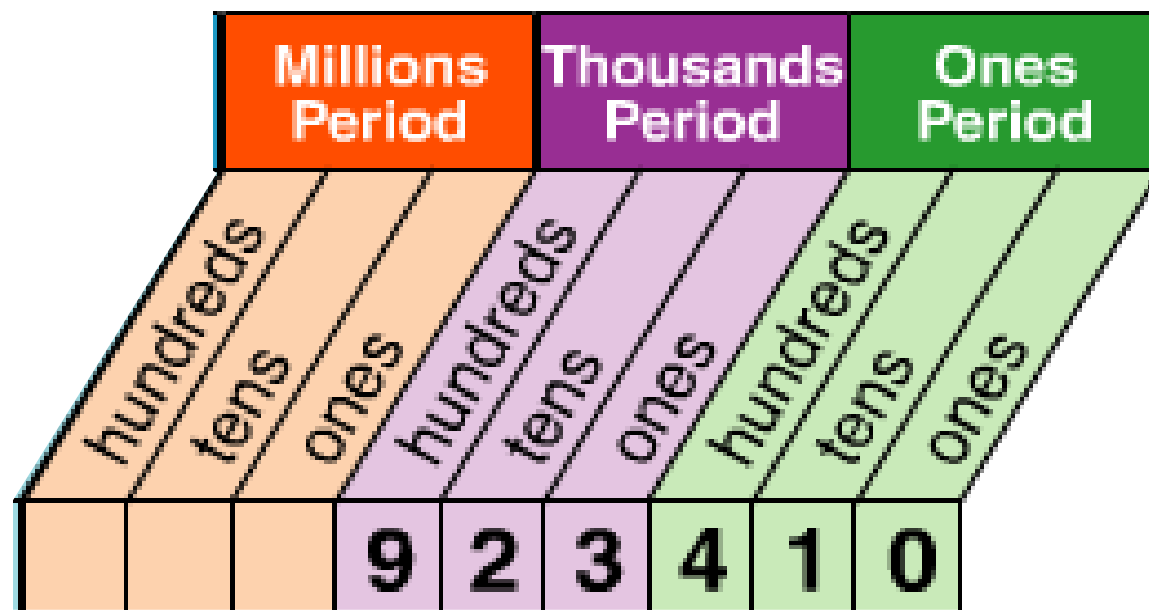
678,923,410

3 one thousands = 3000

| Millions Period | | | Thousands Period | | | Ones Period | | |
|-----------------|------|------|------------------|------|------|-------------|------|------|
| hundreds | tens | ones | hundreds | tens | ones | hundreds | tens | ones |
| | | | 2 | 3 | 4 | 1 | 0 | |

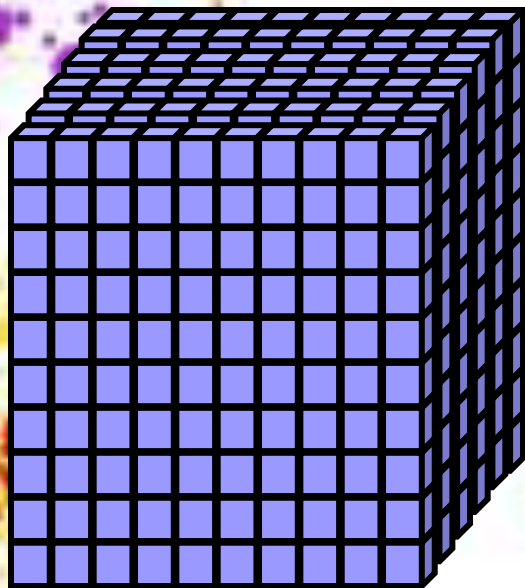
923,410

2 ten thousands = 20,000

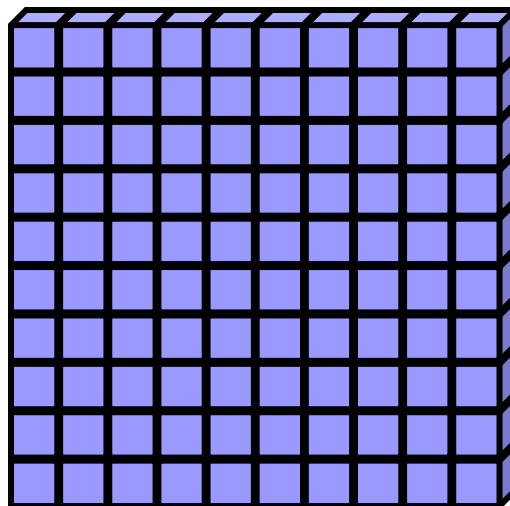


923,410

9 hundred thousands = 900,000



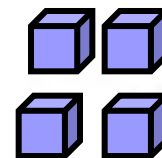
Thousands



Hundreds

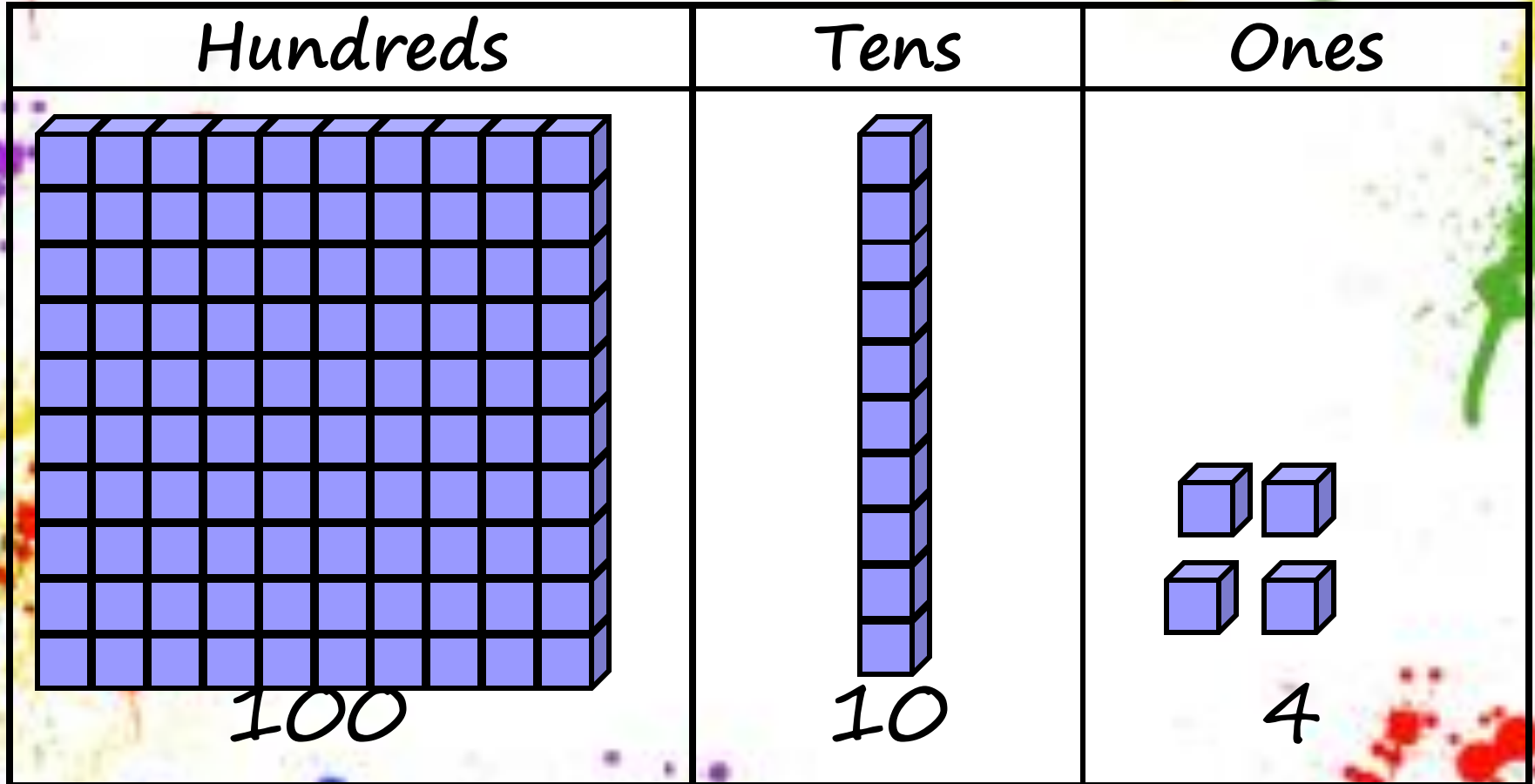


Tens



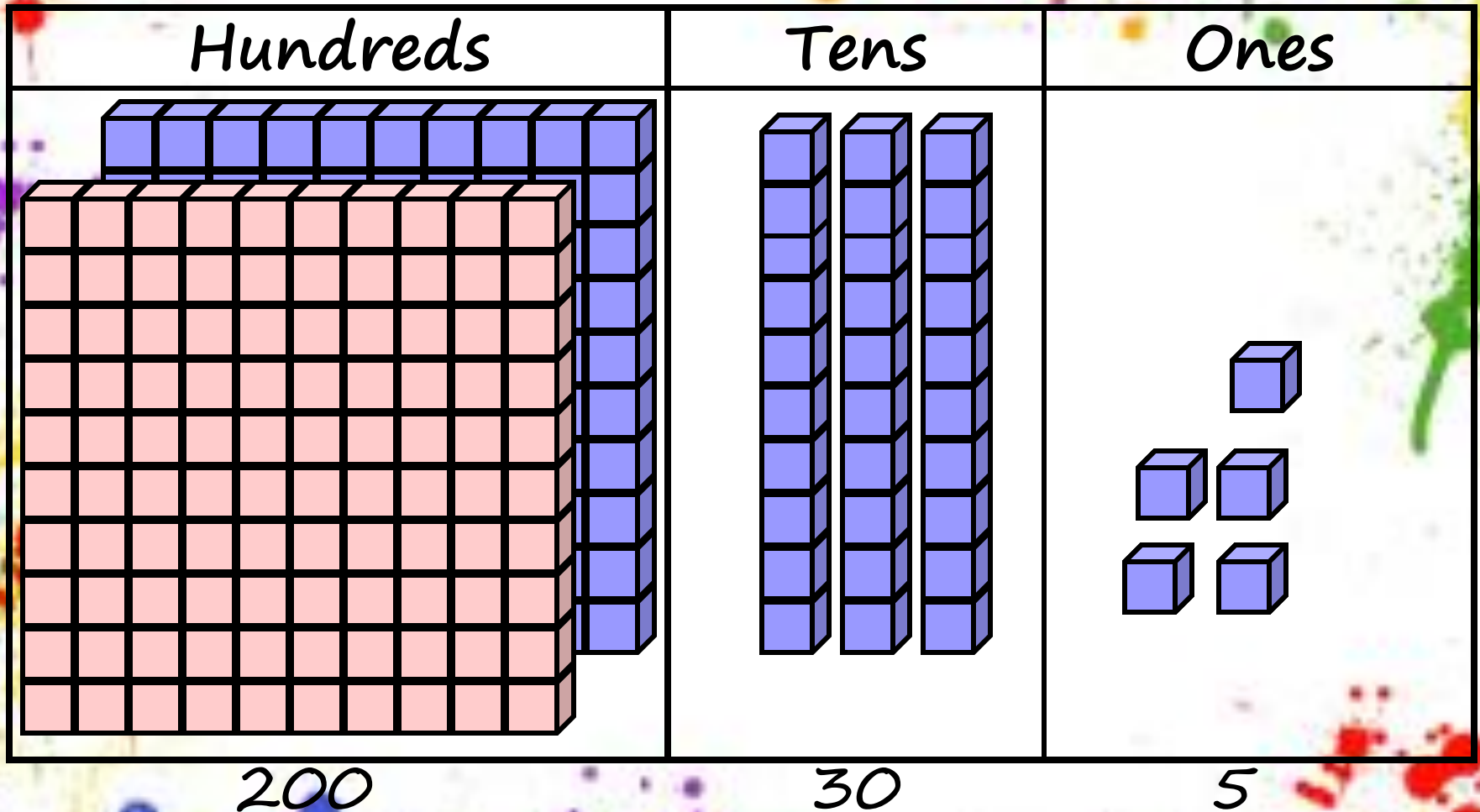
Ones

How Many?



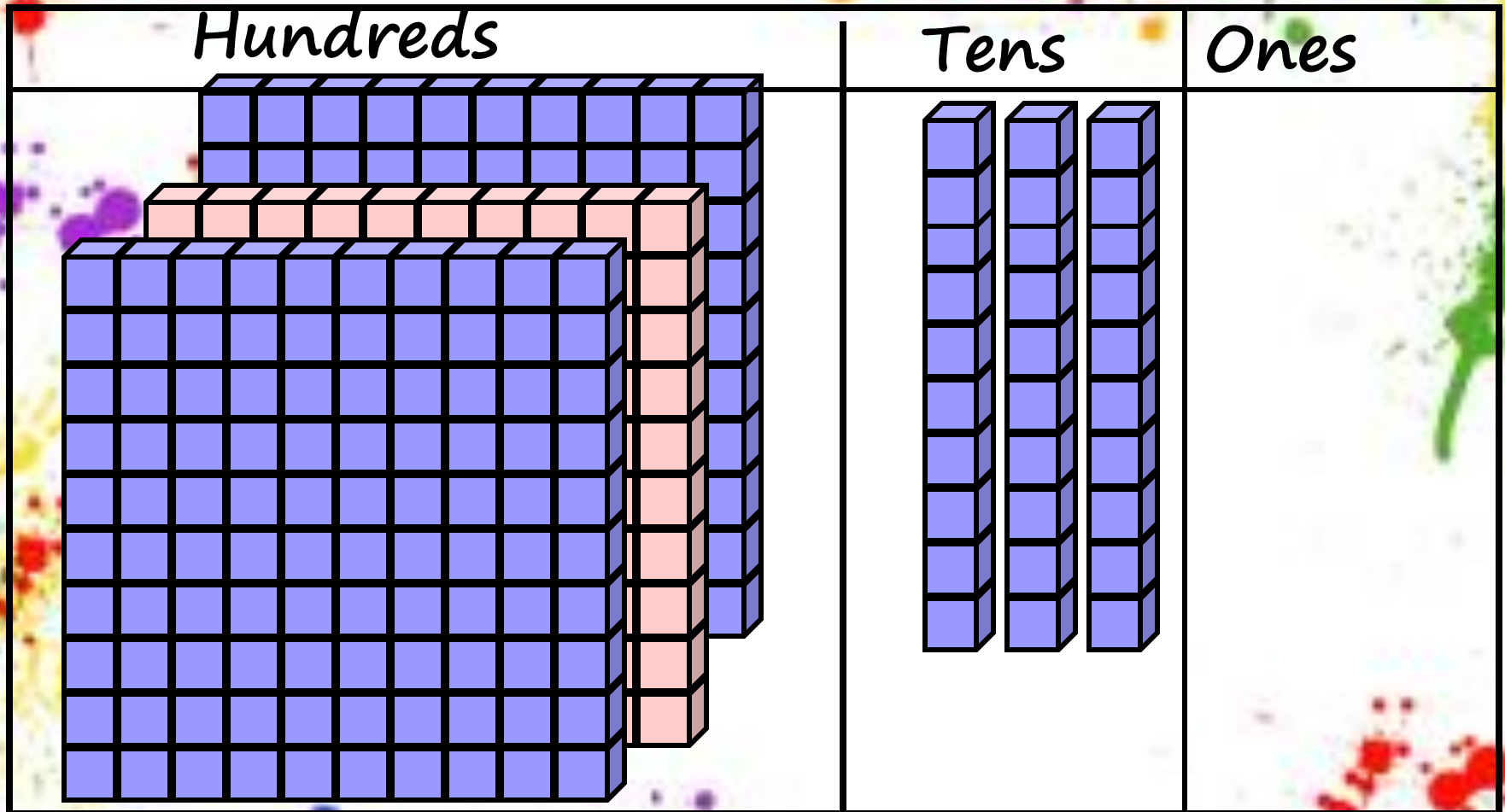
$$100 + 10 + 4 = 114$$

How Many?



$$200 + 30 + 5 = 235$$

How Many?

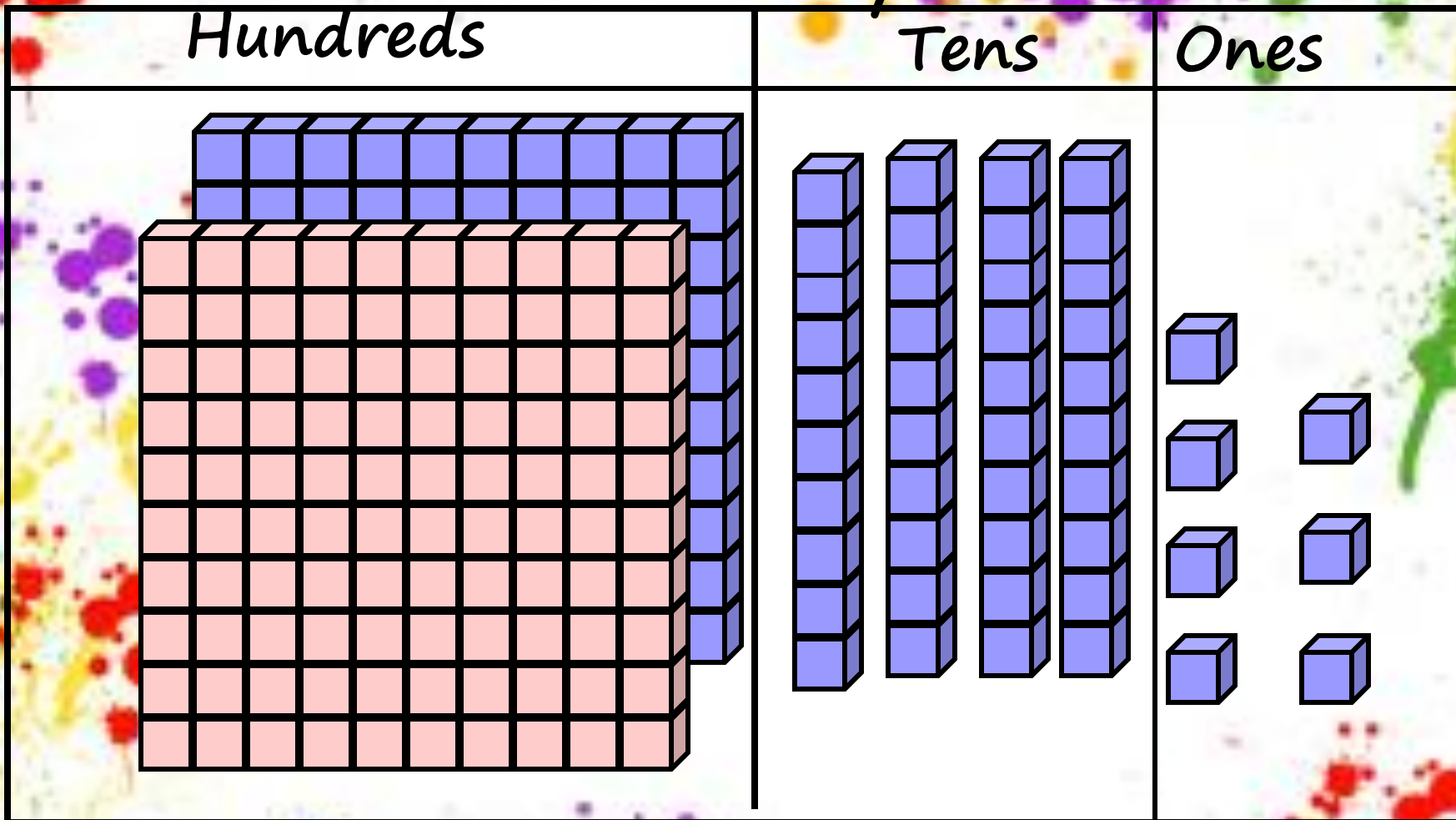


300

30

$$300 + 30 = 330$$

How Many?



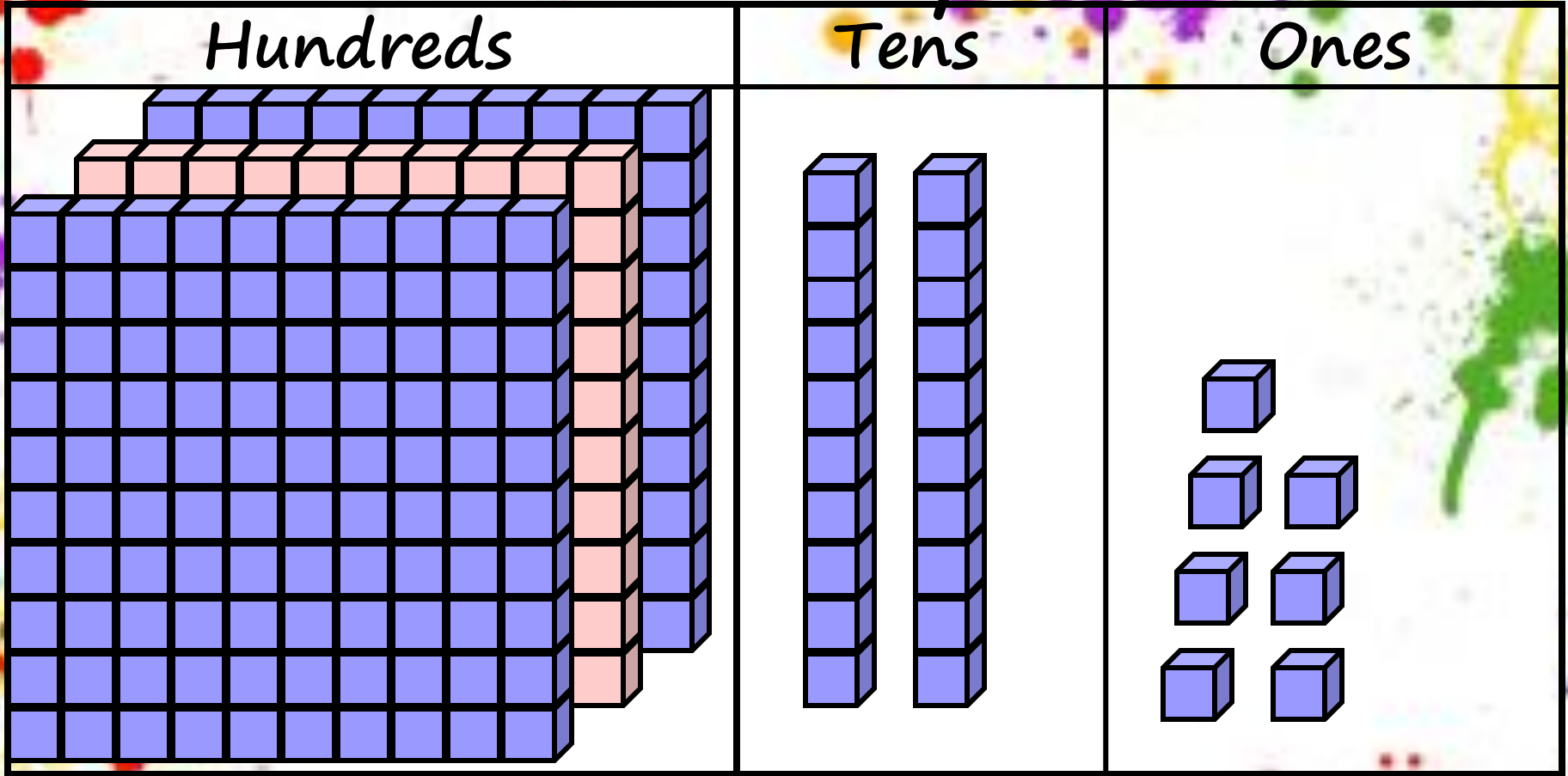
200

40

7

$$200 + 40 + 7 = 247$$

How Many?

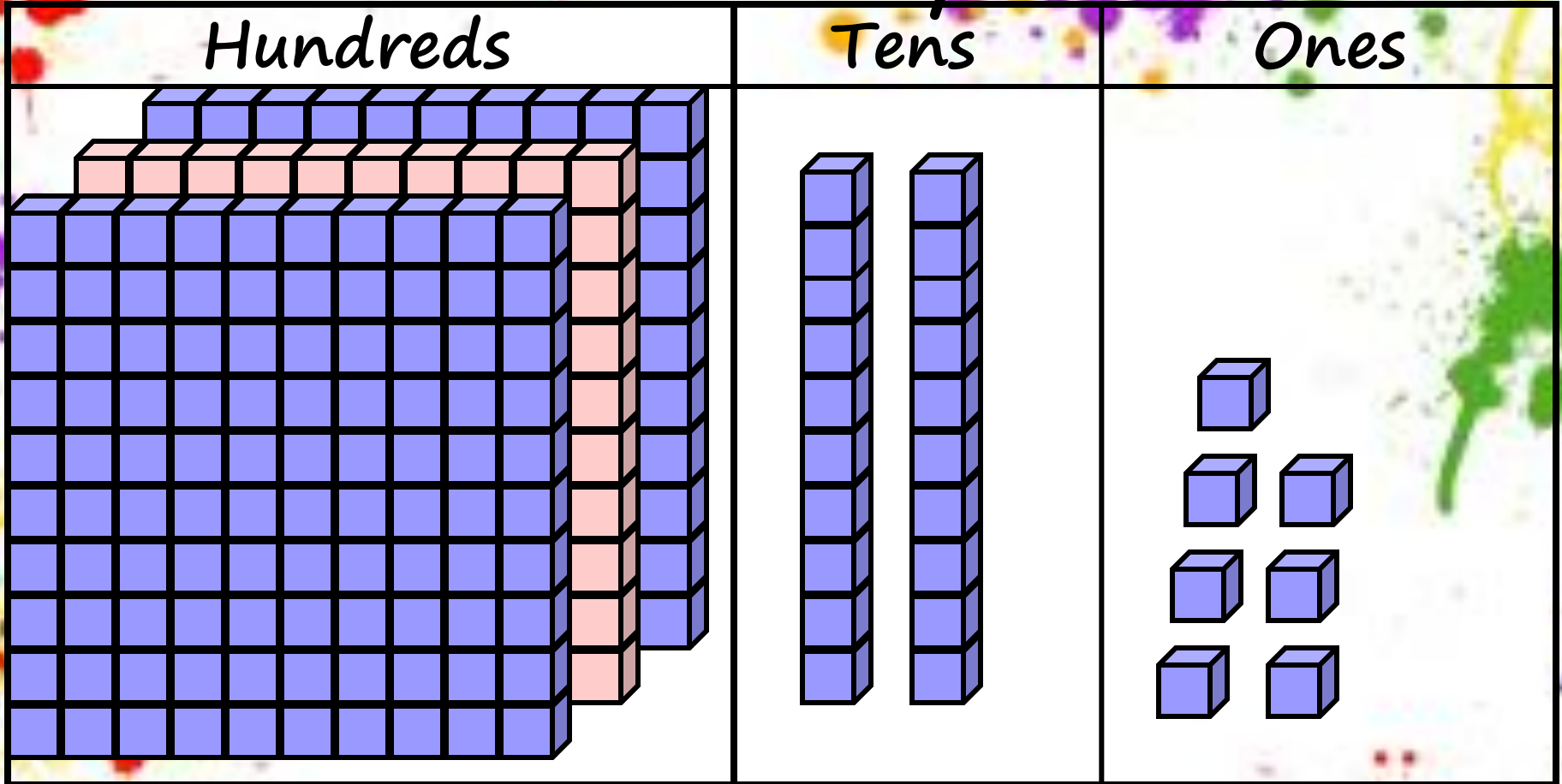


a. $200 + 30 + 7$

b. $300 + 20 + 7$

c. $700 + 30 + 2$

How Many?

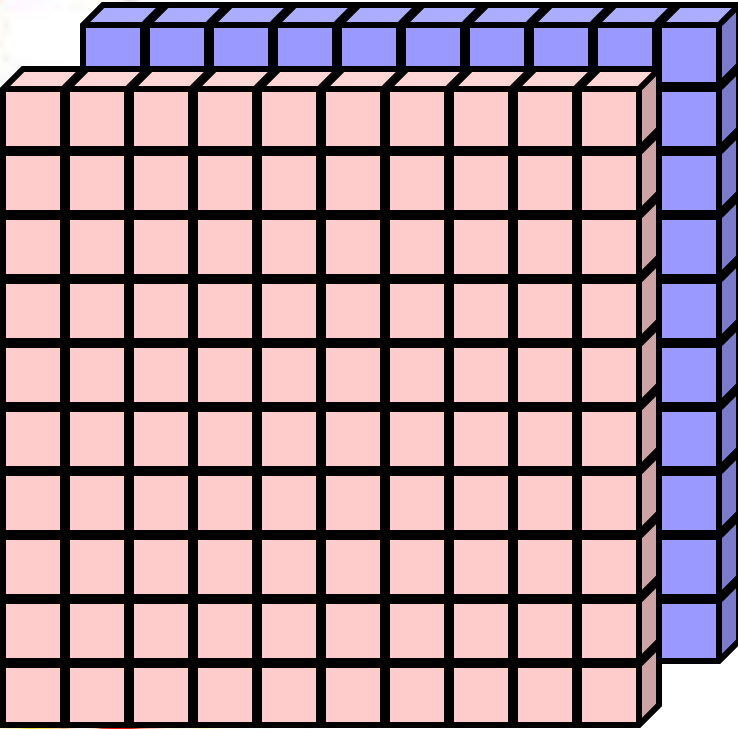


$$200 + 30 + 7$$

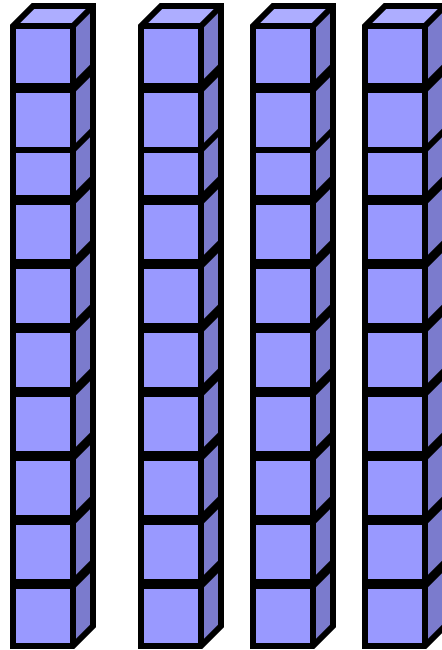
$$300 + 20 + 7$$

$$700 + 30 + 2$$

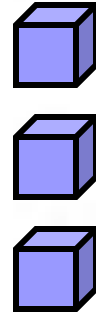
Hundreds



Tens



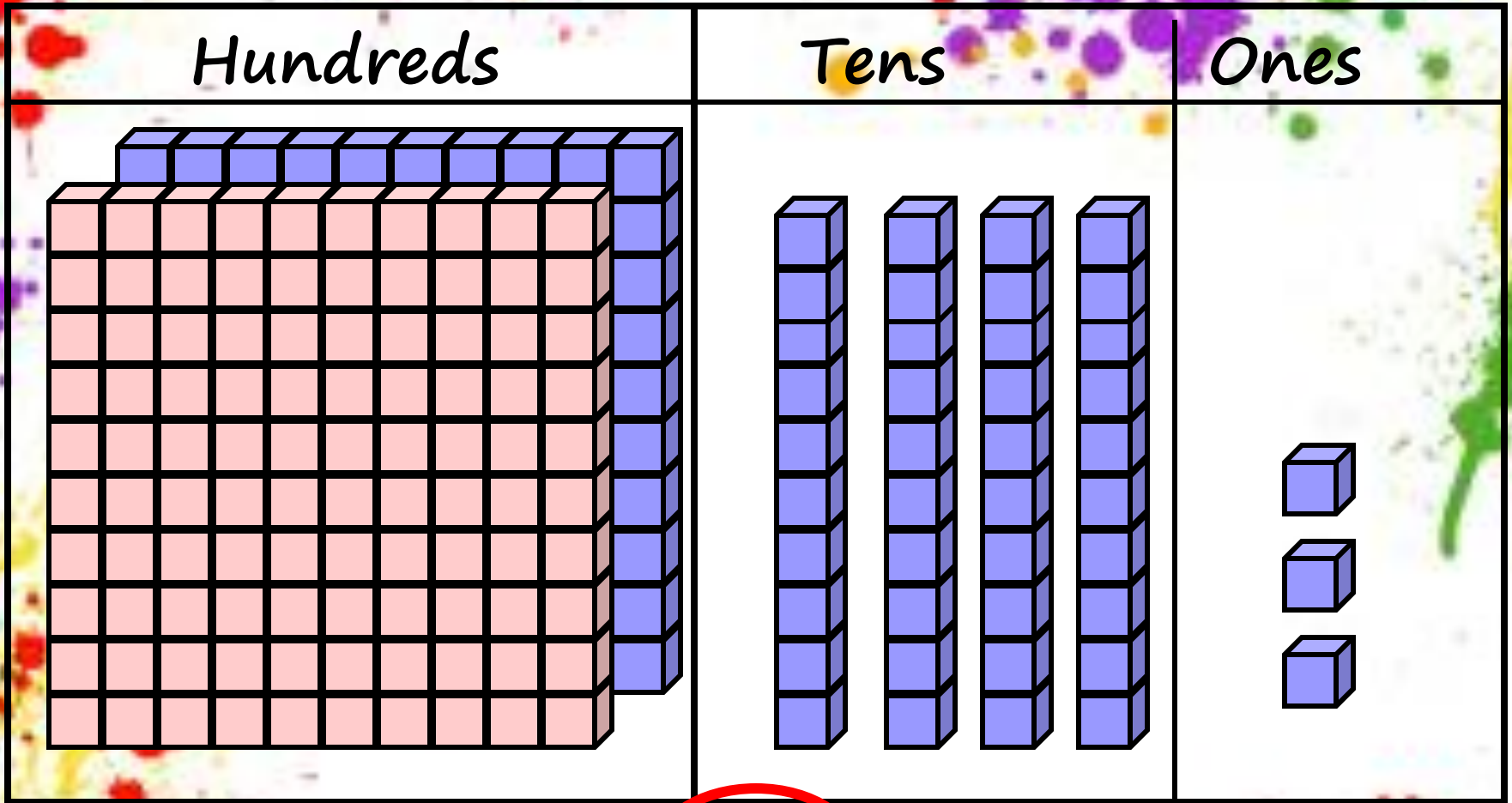
Ones



243

423

234



243

423

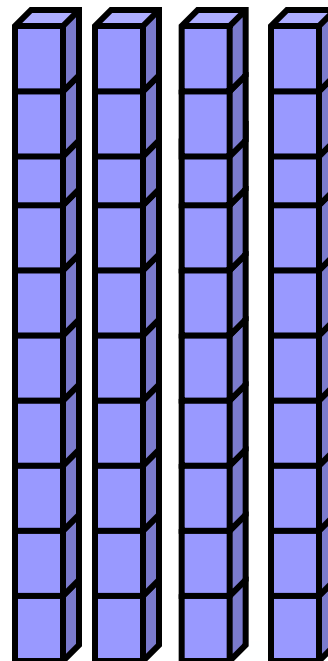
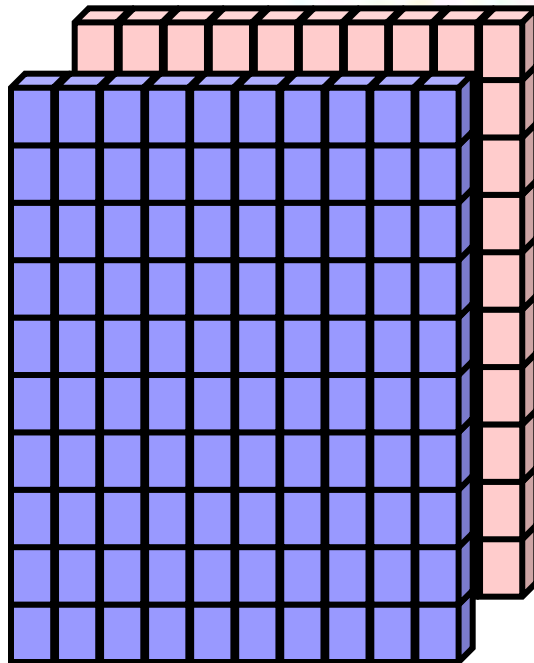
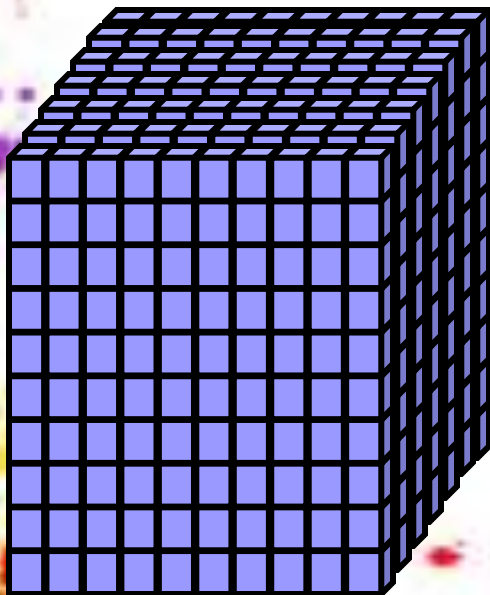
234

Thousands

Hundreds

Tens

Ones



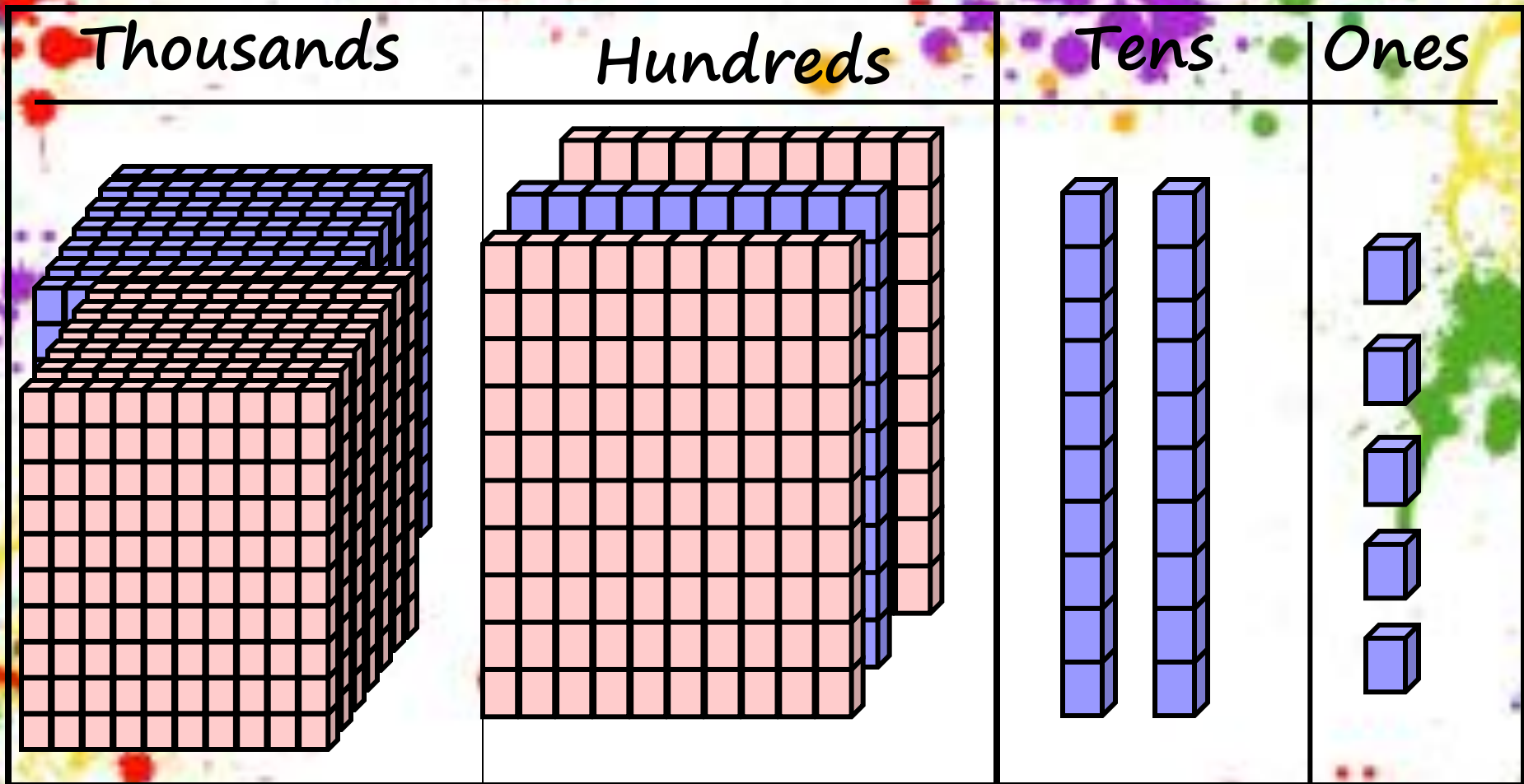
1000

200

40

3

$$1000 + 200 + 40 + 3 = 1,243$$



2000

300

20

5

$$2000 + 300 + 20 + 5 = 2,325$$

FINDING PLACE VALUES

Activity 1

1. The number 74 has: ___ tens and ___ ones
2. The number 606 has ___ hundreds ___ tens ___ ones
3. What is the place value for ten thousands in the number 15746
4. What is the place value for ones in the number 512389
5. What is the place value for tens in the number 53484
6. What is the place value for ten thousands in the number 946600
7. What is the place value for hundreds in the number 946600
8. Write the place of the underlined digit. Then write its value
A. 2242 B. 63,666 C. 199,999 D. 880,888

Activity 2.

- Write the next numbers, put the coma where it is necessary

| Millions. | Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-----------|-------------------|---------------|-----------|----------|------|------|
| | 3 | 5 | 7 | 6 | 4 | 5 |
| | 5 | 6 | 8 | 9 | 0 | 3 |
| | 6 | 4 | 2 | 3 | 2 | 4 |
| | 4 | 5 | 9 | 7 | 8 | 4 |
| | 2 | 9 | 8 | 7 | 2 | 3 |

Activity 3

Place Value - Color, Cut and Paste

| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| | | | | | | |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 |

Color the digit in the Millions Place Yellow.

Color the digit in the Ones Place Green.

Color the digit in the Hundred Thousands Place Red.

Color the digit in the Tens Place Purple.

Color the digit in the Hundreds Place Grey.

Color the digit in the Thousands Place Blue.

Color the digit in the Ten Thousands Place Orange.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 7 | , | 6 | 5 | 4 | , | 3 | 2 | 1 |

| | | | | | | |
|------------------|----------|-----------|----------|------|----------------------|------|
| Ten Thousands | Millions | Thousands | Hundreds | Ones | Hundred Thousands | Tens |
|------------------|----------|-----------|----------|------|----------------------|------|

Activity 4

Organize the numbers on the tables and make the operation

- 456789 + 4532

- 345762 + 24567

- 982345 - 45367

- 3456 × 34

- 6723 × 23

-EXAMPLE

| Hund. Th | Ten Th | Th | H | T | U |
|-------------|--------|----|---|---|---|
| 4 | 5 | 6 | 7 | 8 | 9 |
| | + | 4 | 5 | 3 | 2 |
| 4 | 6 | 1 | 3 | 2 | 1 |
| | | | | | |

Time to play

- <http://www.toonuniversity.com/flash.asp?err=496&engine=9>