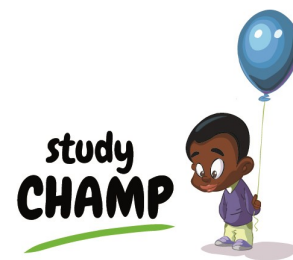


Place value and Number value



Fill in the correct number in the blocks provided to make the equations true:

$$827\ 893 = \square \times 1\ 000 + \square \times 100 + \square \times 10 + \square \times 100\ 000 + \square \times 1$$

$$+ \square \times 10\ 000$$

$$109\ 328 = \square \times 10\ 000 + \square \times 100 + \square \times 100\ 000 + \square \times 10 + \square \times 1$$

$$+ \square \times 1\ 000$$

$$395\ 080 = \square \times 100\ 000 + \square \times 100 + \square \times 10 + \square \times 1 + \square \times 1\ 000$$

$$+ \square \times 10\ 000$$

What numbers are represented by the following equations?

$$(3 \times 100) + (8 \times 100\ 000) + (7 \times 1) + (9 \times 1\ 000) + (4 \times 10\ 000) = \square$$

$$(4 \times 100\ 000) + (5 \times 1) + (7 \times 10\ 000) + (5 \times 1\ 000) = \square$$

$$(9 \times 1) + (6 \times 10\ 000) + (4 \times 100) + (9 \times 100\ 000) + (3 \times 10) = \square$$

Write down the value of each of the digits in the numbers as indicated:

83 541 the value of the 8 is _____ 82 914 the value of the 8 is _____

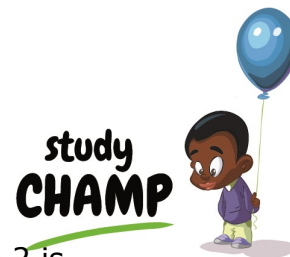
the value of the 3 is _____ the value of the 9 is _____

the value of the 5 is _____ the value of the 1 is _____

the value of the 4 is _____ the value of the 2 is _____

the value of the 1 is _____ the value of the 4 is _____

Place value and Number value



728 456 the value of the 7 is _____ 209 176 the value of the 2 is _____
 the value of the 4 is _____ the value of the 0 is _____
 the value of the 2 is _____ the value of the 1 is _____
 the value of the 6 is _____ the value of the 9 is _____
 the value of the 8 is _____ the value of the 7 is _____
 the value of the 5 is _____ the value of the 6 is _____

Write the following numbers in Expanded Notation:

904 781 = _____
 780 092 = _____
 347 932 = _____
 418 607 = _____

Enter the Place value and the Number value of the digit 9 in the following numbers:

Number	Place value	Number value
1. 892 215		
2. 318 289		
3. 928 201		
4. 607 926		

- What is the difference in value between the 9 in line 1 and the 9 in line 4?

- What is the product of the value of the 9 line 1 and the 9 in line 2?

- What is the sum of the value of the 9 in line 3 and the 9 in line 4?

- What is the difference in value between the 9 in line 3 and the 9 in line 1?

Place value and Number value






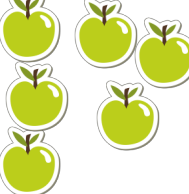


Put your thinking cap on!



The following questions are a bit more challenging. Read the questions carefully before you answer.

- How many Thousands are in the number 347 890? _____
- How many Hundreds are in the number 560 123? _____
- In the number 703 281, the 3 is in the _____ place.
- In the number 691 784, the 9 is in the _____ place.
- Complete the following:
 $890\ 341 = 800\ 000 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + 300 + \underline{\hspace{2cm}} + 1$
 $146\ 592 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + 6\ 000 + \underline{\hspace{2cm}} + 90 + \underline{\hspace{2cm}}$
 $800 + 30 + 2\ 000 + 4 + 50\ 000 + 400\ 000 = \underline{\hspace{2cm}}$
 $4 + 5\ 000 + 40 + 900\ 000 = \underline{\hspace{2cm}}$
- Write down the numbers represented by the following:
 3 hundreds + 4 tens + 60 thousands = _____
 7 ten thousands + 80 hundreds + 3 units = _____
 2 units + 8 hundred thousands + 90 tens = _____
 5 tens + 12 units + 9 hundred thousands = _____
- What number is represented by this table? _____

Quick tip: When doing these sums, first write the headings for yourself, then fill in the numbers where they belong:
 HTh TTh Th HT U

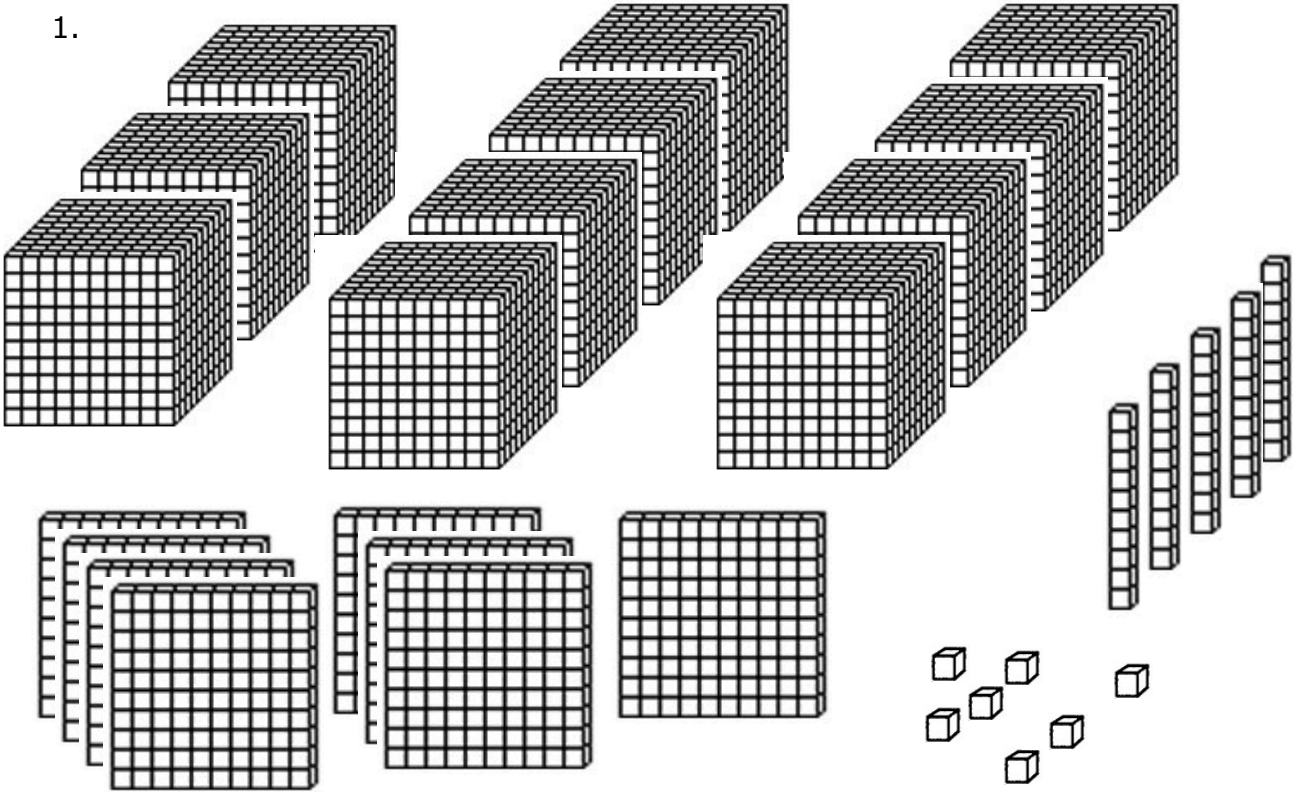
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Units
					

Place value and Number value and Number words



Which numbers are represented by the following blocks? Write the numbers and the number words:

1.



Number: _____

Number word: _____

2.

$$(2 \times \text{flat}) + (8 \times \text{cube}) + (3 \times \text{rod}) + (304 \times \text{cube}) + (9 \times \text{small cube})$$

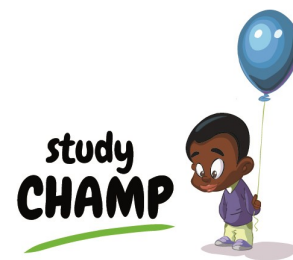
= _____

Number word: _____

3. Draw the number 3 067, using Dienes blocks.



Number value and Place Value - Memo



Fill in the correct number in the blocks provided to make the equations true:

$$827\ 893 = \boxed{7} \times 1\ 000 + \boxed{8} \times 100 + \boxed{9} \times 10 + \boxed{8} \times 100\ 000 + \boxed{3} \times 1 \\ + \boxed{2} \times 10\ 000$$

$$109\ 328 = \boxed{0} \times 10\ 000 + \boxed{3} \times 100 + \boxed{1} \times 100\ 000 + \boxed{2} \times 10 + \boxed{8} \times 1 \\ + \boxed{9} \times 1\ 000$$

$$395\ 080 = \boxed{3} \times 100\ 000 + \boxed{0} \times 100 + \boxed{8} \times 10 + \boxed{0} \times 1 + \boxed{5} \times 1\ 000 \\ + \boxed{9} \times 10\ 000$$

What number is represented by the following equations?

$$(3 \times 100) + (8 \times 100\ 000) + (7 \times 1) + (9 \times 1\ 000) + (4 \times 10\ 000) = \boxed{849\ 307}$$

$$(4 \times 100\ 000) + (5 \times 1) + (7 \times 10\ 000) + (5 \times 1\ 000) = \boxed{475\ 005}$$

$$(9 \times 1) + (6 \times 10\ 000) + (4 \times 100) + (9 \times 100\ 000) + (3 \times 10) = \boxed{960\ 439}$$

Write down the value of each of the digits in the numbers as indicated:

83 541 the value of the 8 is **80 000**
 the value of the 3 is **3 000**
 the value of the 5 is **500**
 the value of the 4 is **40**
 the value of the 1 is **1**

82 914 the value of the 8 is **80 000**
 the value of the 9 is **900**
 the value of the 1 is **10**
 the value of the 2 is **2 000**
 the value of the 4 is **4**

Number value and Place Value - Memo



728 456 the value of the 7 is **700 000**
 the value of the 4 is **400**
 the value of the 2 is **20 000**
 the value of the 6 is **6**
 the value of the 8 is **8 000**
 the value of the 5 is **50**

209 176 the value of the 2 is **200 000**
 the value of the 0 is **0**
 the value of the 1 is **100**
 the value of the 9 is **9 000**
 the value of the 7 is **70**
 the value of the 6 is **6**

Write the following numbers in Expanded Notation:

$$904\ 781 = 900\ 000 + 4\ 000 + 700 + 80 + 1$$

$$780\ 092 = 700\ 000 + 80\ 000 + 90 + 2$$

$$347\ 932 = 300\ 000 + 40\ 000 + 7\ 000 + 900 + 30 + 2$$

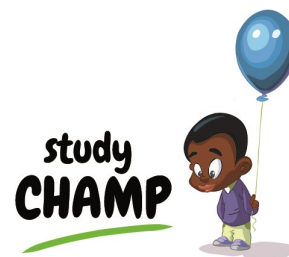
$$418\ 607 = 400\ 000 + 10\ 000 + 8\ 000 + 600 + 7$$

Enter the Place value and the Number value of the digit 9 in the following numbers:

Number	Place value	Number value
1. 892 215	Ten Thousand	90 000
2. 318 289	Unit/One	9
3. 928 201	Hundred thousand	900 000
4. 607 926	Hundred	900

- What is the difference in value between the 9 in line 1 and the 9 in line 4?
 $90\ 000 - 900 = 89\ 100$
- What is the product of the value of the 9 line 1 and the 9 in line 2?
 $90\ 000 \times 9 = 810\ 000$
- What is the sum of the value of the 9 in line 3 and the 9 in line 4?
 $900\ 000 + 900 = 900\ 900$
- What is the difference in value between the 9 in line 3 and the 9 in line 1?
 $900\ 000 - 90\ 000 = 810\ 000$

Number value and Place Value - Memo



The following questions are a bit more challenging. Read the questions carefully before you answer.

- How many thousands are in the number 347 890? **347**
- How many hundreds are in the number 560 123? **5 601**
- In the number 703 281, the 3 is in the **Thousands** place.
- In the number 691 784, the 9 is in the **Ten Thousands** place.

5. Complete the following:

$$890\ 341 = 800\ 000 + 90\ 000 + 0 + 300 + 40 + 1$$

$$146\ 592 = 100\ 000 + 40\ 000 + 6\ 000 + 500 + 90 + 2$$

$$800 + 30 + 2\ 000 + 4 + 50\ 000 + 400\ 000 = 452\ 834$$

$$4 + 5\ 000 + 40 + 900\ 000 = 905\ 044$$

6. Write down the numbers represented by the following:

$$3\ \text{hundreds} + 4\ \text{tens} + 60\ \text{thousands} = 60\ 304$$

$$7\ \text{ten thousands} + 80\ \text{hundreds} + 3\ \text{units} = 78\ 003$$

$$2\ \text{units} + 8\ \text{hundred thousands} + 90\ \text{tens} = 800\ 902$$

$$5\ \text{tens} + 12\ \text{units} + 9\ \text{hundred thousands} = 900\ 062$$

5. What number is represented by this table? **753 684**

Quick tip: When doing these sums, first write the headings for yourself, then fill in the numbers where they belong:
HTh TTh Th HT U

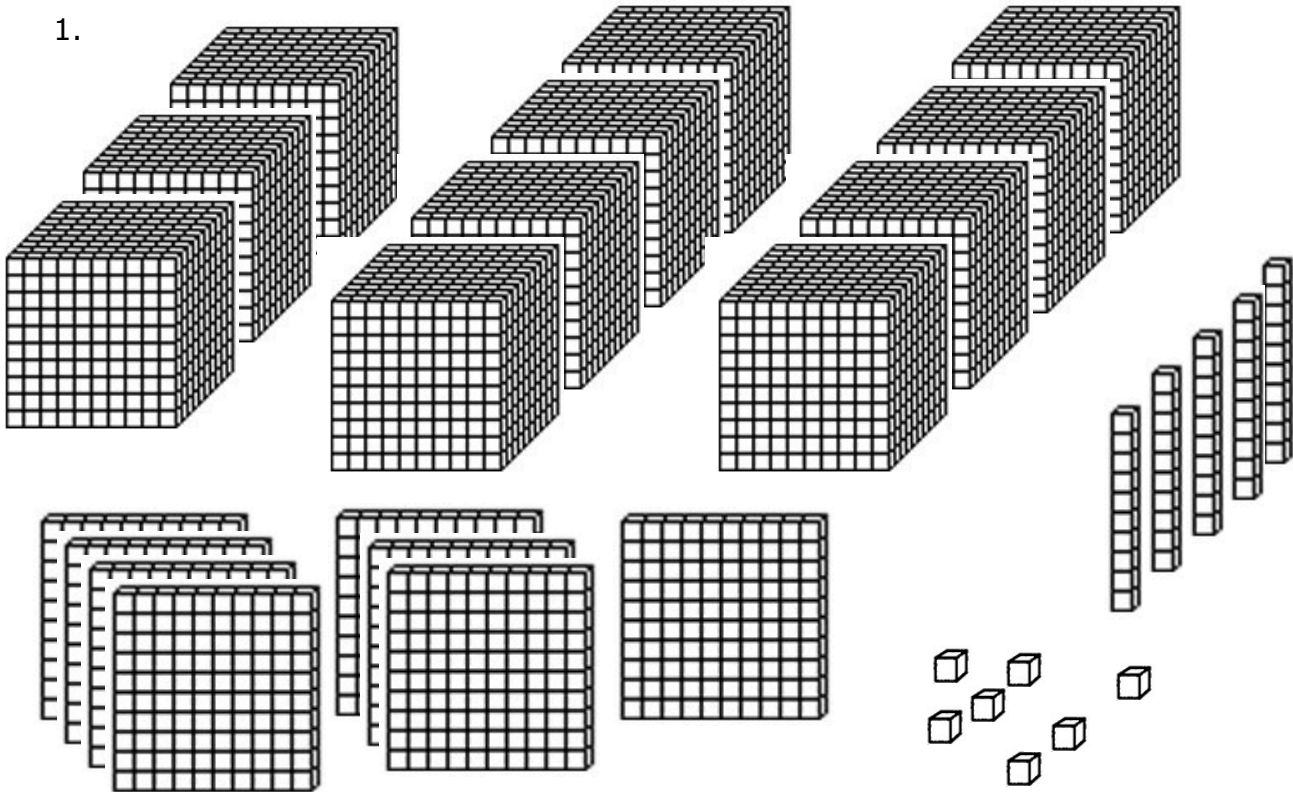
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Units

Place value and Number value and Number words—Memo



Which numbers are represented by the following blocks? Write the numbers and the number words:

1.



Number: $(11 \times 1\,000) + (8 \times 100) + (5 \times 10) + 7 = 11\,857$ (Use this method to ensure that no silly mistakes are made!)

Number word: **Eleven thousand, eight hundred and fifty-seven.**

2. $(2 \times \text{[100 block]}) + (8 \times \text{[1000 block]}) + (3 \times \text{[10 block]}) + (304 \times \text{[1000 block]}) + (9 \times \text{[1 block]})$

$= (2 \times 100) + (8 \times 1\,000) + (3 \times 10) + (304 \times 1\,000) + (9 \times 1) = 312\,239$

Number word: **Three hundred and twelve thousand, two hundred and thirty-nine.**

3. Draw the number 3 067, using Dienes blocks.

