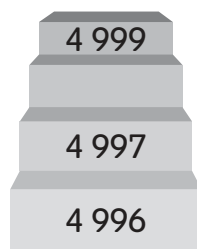


**Unit 1****Count, write and find place value of numbers up to 99 999****Exercise 1 Count and write up to 99 999**

1. Fill in the missing number on the steps.



2. Complete each number pattern.

a) 4 996; 4 997; \_\_\_\_\_; 4 999; \_\_\_\_\_; \_\_\_\_\_; 5 002

b) 8 070; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 8 120; \_\_\_\_\_

c) \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 3 900; 4 000

d) 9 965; 9 970; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

e) 7 788; 7 790; 7 792; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

3. Complete each number sentence.

a)  $6\,453 + 100 = 6\,553 + \underline{\hspace{2cm}} = 6\,653$

b)  $9\,873 + \underline{\hspace{2cm}} = 9\,883 + \underline{\hspace{2cm}} = 9\,893$

c)  $4\,167 + 100 = 4\,267 + \underline{\hspace{2cm}} = 4\,367$

d)  $9\,199 + \underline{\hspace{2cm}} = 9\,299 + \underline{\hspace{2cm}} = 9\,399$

e)  $5\,785 + 1\,000 = 6\,785 + \underline{\hspace{2cm}} = 7\,785$

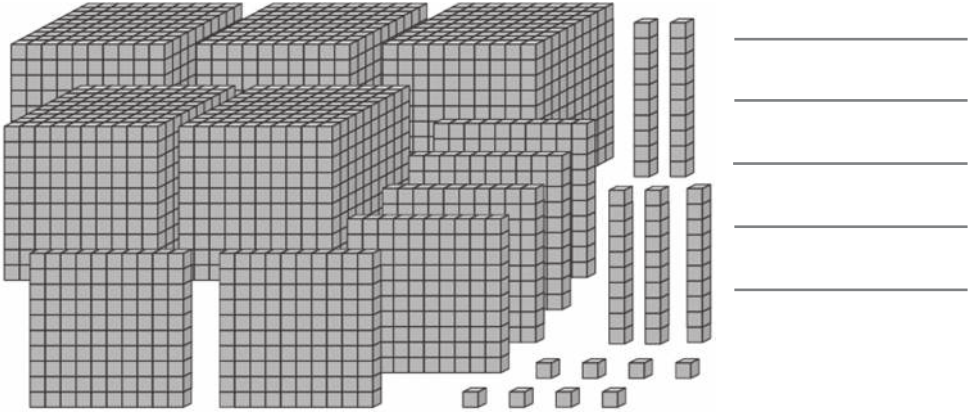
f)  $2\,808 + \underline{\hspace{2cm}} = 3\,808 + \underline{\hspace{2cm}} = 4\,808$

g)  $898 + 1 = 899 + 1 = \underline{\hspace{2cm}}$

h)  $888 + \underline{\hspace{2cm}} = 890 + \underline{\hspace{2cm}} = 892$

## Exercise 2 Place value up to 99 999

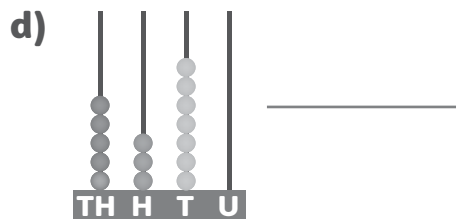
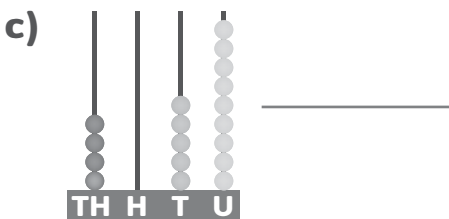
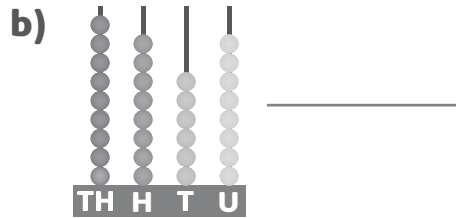
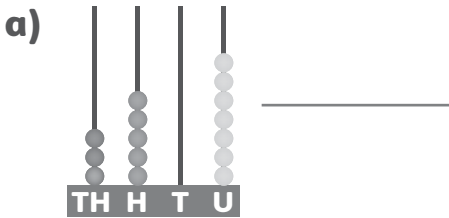
1. Which number is represented by the Dienes blocks?  
 Write the value of the different blocks and the numbers.



2. Write each number in words.

- a) 986 → \_\_\_\_\_  
 b) 1 237 → \_\_\_\_\_  
 c) 2 765 → \_\_\_\_\_  
 d) 3 897 → \_\_\_\_\_  
 e) 3 966 → \_\_\_\_\_

3. Write the number represented on each abacus.



4. Write each number in digits.

a) five thousand two hundred and sixty-three \_\_\_\_\_

b) eight thousand four hundred and thirty-one \_\_\_\_\_

c) two thousand nine hundred and two \_\_\_\_\_

d) seven hundred and forty-five \_\_\_\_\_

### Exercise 3 Place value and expanded notation

1. Write each number in digits.

a) 0 thousands + 5 hundreds + 0 tens + 0 unit = \_\_\_\_\_

b) 4 thousands + 5 hundreds + 0 tens + 0 unit = \_\_\_\_\_

c) 3 thousands + 4 hundreds + 1 ten + 1 unit = \_\_\_\_\_

d) 4 thousands + 8 hundreds + 6 tens + 2 units = \_\_\_\_\_

2. Write each number that is shown in expanded notation.

a)  $2\ 000 + 500 + 60 + 6 =$  \_\_\_\_\_

b)  $4\ 000 + 200 + 30 + 8 =$  \_\_\_\_\_

c)  $500 + 4 + 90 + 1\ 000 =$  \_\_\_\_\_

d)  $80 + 700 + 2\ 000 + 1 =$  \_\_\_\_\_

3. Write each number in expanded notation.

a)  $9\ 203 =$  \_\_\_\_\_

b)  $7\ 770 =$  \_\_\_\_\_

c)  $9\ 009 =$  \_\_\_\_\_

d)  $8\ 976 =$  \_\_\_\_\_

4. Write the value of each underlined digit.

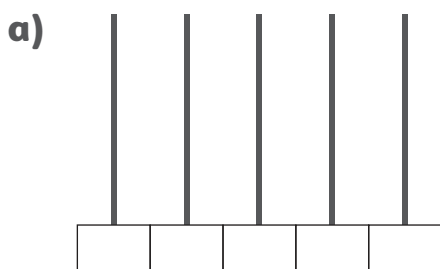
- a) 2 468 \_\_\_\_\_      b) 4 567 \_\_\_\_\_      c) 5 432 \_\_\_\_\_  
 d) 3 548 \_\_\_\_\_      e) 4 687 \_\_\_\_\_      f) 5 078 \_\_\_\_\_

5. Complete the table.

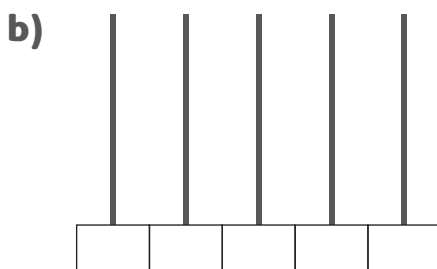
	TTH	TH	H	T	U
24 869					
17 037					
54 852					

## Exercise 4 Place value of numbers up to 99 999

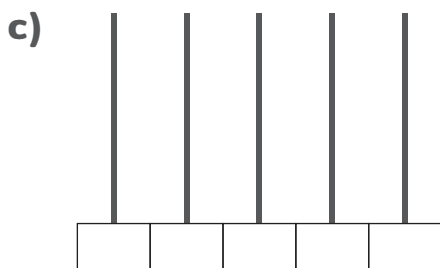
1. Draw beads on each abacus to represent each number.  
 Fill in the place value labels TTH, TH, H, T and U.



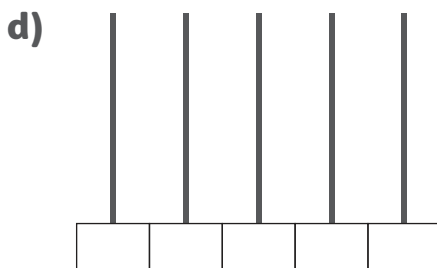
81 346



40 572



75 619



62 487

2. Fill in the missing place values and values.

a)  $81\ 346 = 80\ 000 + \underline{\hspace{2cm}} + 300 + \underline{\hspace{2cm}} + 6$

b)  $40\ 572 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + 2$

c)  $75\ 619 = 7 \text{ ten thousands} + \underline{\hspace{4cm}}$   
 $+ \underline{\hspace{4cm}} + 19$

d)  $62\ 487 = \underline{\hspace{4cm}} + 2 \text{ thousands}$   
 $+ \underline{\hspace{2cm}} + 80 + \underline{\hspace{2cm}}$

3. Write the value of each underlined digit.

a)  $7\underline{1}\ 141$

b)  $\underline{8}\ 3\ 564$

c)  $16\ 7\underline{9}4$

d)  $29\ \underline{6}73$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Write the number represented by each set of overlay cards.

a)  $70\ 000$   $1\ 000$   $200$   $80$   $5$  \_\_\_\_\_

b)  $8\ 000$   $400$   $60\ 000$   $2$   $90$  \_\_\_\_\_

c)  $100$   $6$   $90\ 000$   $10$   $1\ 000$  \_\_\_\_\_

d)  $40$   $20\ 000$   $9\ 000$   $7$   $300$  \_\_\_\_\_

5. Write each number on the overlay cards in expanded notation. Use the values of the digits.

a)  $2$   $4$   $1$   $3$   $4$  \_\_\_\_\_

b)  $7$   $2$   $4$   $8$   $7$  \_\_\_\_\_

c)  $1$   $5$   $3$   $2$   $9$  \_\_\_\_\_

d)  $4$   $6$   $9$   $3$   $8$  \_\_\_\_\_

## Unit 2

## Count, write and find place value of numbers up to one million

### Exercise 1 Numbers up to millions

1. Make the largest number that can be formed with each set of digit cards.

a) **8 0 1 6 3 9 4**

b) **2 6 3 5 7 1 1**

\_\_\_\_\_

\_\_\_\_\_

2. Write the smallest number that can be formed with each set of cards in question 1.

a) \_\_\_\_\_

b) \_\_\_\_\_

3. Complete each number sentence.

a)  $899\,799 + 1 =$  \_\_\_\_\_

b)  $899\,799 + 10 =$  \_\_\_\_\_

c)  $899\,799 + 100 =$  \_\_\_\_\_

d)  $899\,799 + 1\,000 =$  \_\_\_\_\_

e)  $899\,799 + 10\,000 =$  \_\_\_\_\_

f)  $899\,799 + 100\,000 =$  \_\_\_\_\_

g)  $899\,799 + 1\,000\,000 =$  \_\_\_\_\_

4. Complete each number pattern.

a) 9 950; 9 960; 9 970; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

b) 20 406; \_\_\_\_\_; 20 606; \_\_\_\_\_; \_\_\_\_\_; 20 906

c) 405 783; 405 883; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; 406 283

5. How many 10s are in each number?

100 → \_\_\_\_\_      1 000 → \_\_\_\_\_      10 000 → \_\_\_\_\_  
 100 000 → \_\_\_\_\_      1 000 000 → \_\_\_\_\_

6. How many 100s are in each number?

700 → \_\_\_\_\_      4 000 → \_\_\_\_\_      50 000 → \_\_\_\_\_  
 800 000 → \_\_\_\_\_      6 000 000 → \_\_\_\_\_

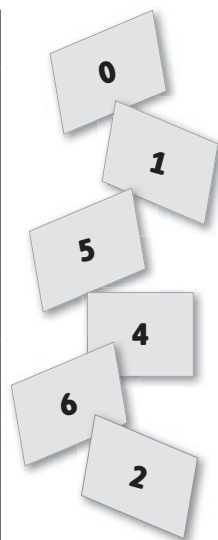
7. How many 1 000s are in each number?

900 → \_\_\_\_\_      6 000 → \_\_\_\_\_      90 000 → \_\_\_\_\_  
 300 000 → \_\_\_\_\_      8 000 000 → \_\_\_\_\_

## Exercise 2 Count up to one million

1. Use the number cards to make the 7-digit numbers (millions) given in words on the next page. Write the digits of the 6 numbers in the correct places in the table.

	<b>M</b>	<b>HTH</b>	<b>TTH</b>	<b>TH</b>	<b>H</b>	<b>T</b>	<b>U</b>
	Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Units
a)							
b)							
c)							
d)							



- a) one million six hundred thousand four hundred and fifteen
- b) six million one thousand four hundred and fifty-two
- c) two million five hundred and forty-one thousand six hundred
- d) four million two hundred and one thousand and sixty-five

2. Write each number that is shown in expanded notation.

- a) 1 unit + 4 ten thousands + 2 hundreds + 5 millions + 6 thousands = \_\_\_\_\_
- b) 5 hundreds + 4 hundred thousands + 2 tens + 6 millions + 1 unit = \_\_\_\_\_

3. Write down the place value of the 5 in each number.

- a) 4 531 726 \_\_\_\_\_
- b) 5 847 961 \_\_\_\_\_
- c) 7 103 569 \_\_\_\_\_
- d) 9 053 624 \_\_\_\_\_

4. Write each number in expanded form.

- a) 1 908 436 \_\_\_\_\_  
\_\_\_\_\_
- b) 9 701 305 \_\_\_\_\_  
\_\_\_\_\_

### Exercise 3 Complete the number sequence

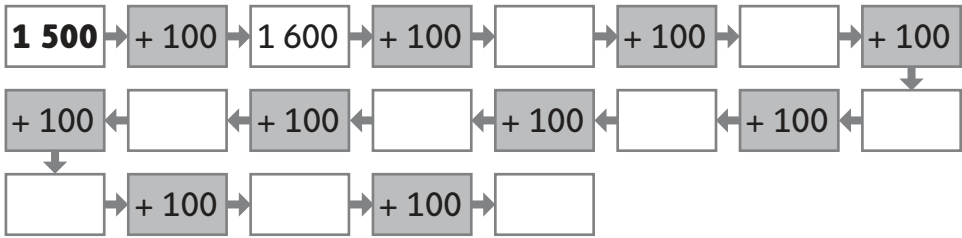
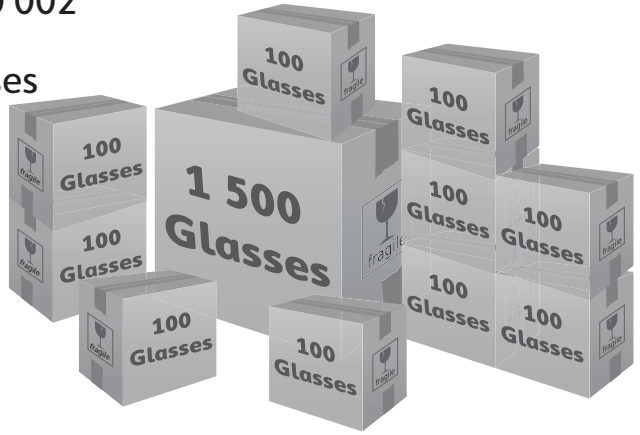
1. Fill in the missing numbers in each sequence.

- a) 600 997; 600 998; 600 999; \_\_\_\_\_; \_\_\_\_\_;  
\_\_\_\_\_; 601 003



- b) 997 350; \_\_\_\_\_; 999 350; \_\_\_\_\_;  
 \_\_\_\_\_; 1 002 350; 1 003 350
- c) 999 996; 999 997; 999 998; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; 1 000 002

2. There are 1 500 glasses in the big box. How many glasses are there in the boxes altogether?  
 Complete the number chain.



There are \_\_\_\_\_ glasses altogether.

### Unit 3 Count in groups of 5, 7 and 60

#### Exercise 1 Count in groups of 5

1. Write multiplication expressions for the repeated addition of 5. Calculate the answers. See example a).

a)  $5 + 5 + 5 \rightarrow 3 \times 5 = 15$

b)  $5 + 5 + 5 + 5 + 5 + 5 \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

c)  $5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

d)  $5 + 5 + 5 + 5 + 5 + 5 + 5 \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2. Fill in the missing numbers in each sequence.

a) 0; 5; 10; 15;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ; 35;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ; 50

b) 65; 70; 75;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ; 95;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$

c) 580; 585;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$

d) 3 460; 3 465;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$ ;  $\underline{\hspace{1cm}}$

3. How many points do these stars have altogether?  $\underline{\hspace{2cm}}$



4. What numbers are shown by these ancient Mayan symbols?

a)  $\frac{\bullet\bullet\bullet}{\equiv} = \underline{\hspace{2cm}}$     b)  $\frac{\bullet\bullet\bullet\bullet}{\equiv} = \underline{\hspace{2cm}}$     c)  $\frac{\bullet\bullet\bullet\bullet}{\equiv\equiv} = \underline{\hspace{2cm}}$

## Exercise 2 Count in groups of 7

1. Write multiplication expressions for the repeated addition of 7. Calculate the answers.

a)  $7 + 7 + 7 + 7 + 7 + 7 + 7 \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

b)  $7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

c)  $7 + 7 + 7 + 7 + 7 + 7 \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

d)  $7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$