

**NS6-5: Representation in Expanded Form**

1. Expand the following numbers using numerals and words. The first one is done for you.

a)  $2\,536\,784 = \underline{2}$  millions +  $\underline{5}$  hundred thousands +  $\underline{3}$  ten thousands +  $\underline{6}$  thousands  
+  $\underline{7}$  hundreds +  $\underline{8}$  tens +  $\underline{4}$  ones

b)  $6\,235\,401 =$  \_\_\_\_\_  
\_\_\_\_\_

c)  $3\,056\,206 =$  \_\_\_\_\_  
\_\_\_\_\_

2. Write the number in expanded form (using numerals). The first one is done for you.

a)  $72\,613 = \underline{70\,000} + \underline{2\,000} + \underline{600} + \underline{10} + \underline{3}$       b)  $36 =$  \_\_\_\_\_

c)  $526 =$  \_\_\_\_\_      d)  $12\,052 =$  \_\_\_\_\_

e)  $2\,382 =$  \_\_\_\_\_      f)  $56\,384 =$  \_\_\_\_\_

g)  $3\,082\,385 =$  \_\_\_\_\_

3. Write the number for each sum.

a)  $6\,000 + 700 + 40 + 7 =$  \_\_\_\_\_      b)  $800 + 60 + 8 =$  \_\_\_\_\_      c)  $3\,000 + 30 + 2 =$  \_\_\_\_\_

d)  $50\,000 + 6\,000 + 400 + 90 + 3 =$  \_\_\_\_\_      e)  $10\,000 + 6\,000 + 200 + 30 + 4 =$  \_\_\_\_\_

f)  $30\,000 + 2\,000 + 500 =$  \_\_\_\_\_      g)  $90\,000 + 3\,000 + 600 + 7 =$  \_\_\_\_\_

BONUS

h)  $300\,000 + 2\,000\,000 + 5 + 70\,000 + 200 =$  \_\_\_\_\_

4. Find the missing numbers.

a)  $2\,000 + 600 + \underline{\hspace{2cm}} + 5 = 2\,645$       b)  $4\,000 + 200 + \underline{\hspace{2cm}} + 5 = 4\,285$

c)  $40\,000 + 3\,000 + \underline{\hspace{2cm}} + 10 + 5 = 43\,715$       d)  $80\,000 + 5\,000 + \underline{\hspace{2cm}} + 60 + 3 = 85\,263$

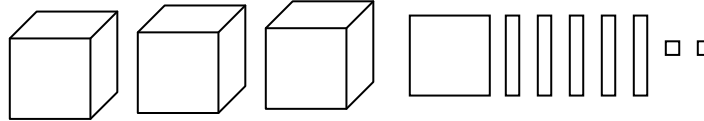
e)  $20\,000 + 6\,000 + 300 + \underline{\hspace{2cm}} = 26\,302$       f)  $\underline{\hspace{2cm}} + 400 = 9\,400$

g)  $6\,000 + \underline{\hspace{2cm}} = 6\,080$       h)  $80\,000 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 87\,005$

i)  $300\,000 + 90\,000 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 390\,702$

5. Write each number in expanded form. Then draw a base ten model.

*Example:*  $3\ 152 = 3\ 000 + 100 + 50 + 2$



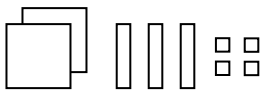
a)  $4\ 354 =$

b)  $2\ 604 =$



6. Represent the number 8 564 in four different ways – by sketching a base ten model, with number words, and in expanded form (2 ways).

*Example:* 234 – Two hundred thirty-four



$234 = 2\ \text{hundreds} + 3\ \text{tens} + 4\ \text{ones}$  *expanded form (using number words)*

$234 = 200 + 30 + 4$  *expanded form (using numerals)*

7. In the number 38 562, what is the sum of the tens digit and the thousands digit?

8. How many two-digit numbers have digits that add to twelve?

9. Using 5 blocks make (or draw) a model of a number such that...

- The number is odd
- There are twice as many thousands blocks as hundreds blocks

10. How many thousands blocks would you need to represent a million?

