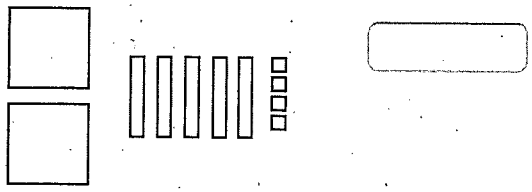
#8

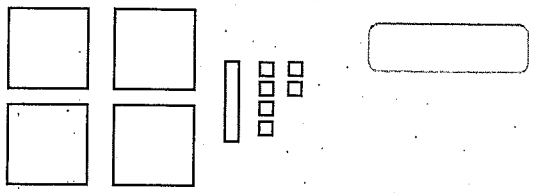
NS6-8: Comparing Numbers (Advanced)

1. Write the number represented by the base ten materials in each box. Then circle the greater number in each pair.
   HINT: If there is the same number of thousands, count the number of hundreds or tens.

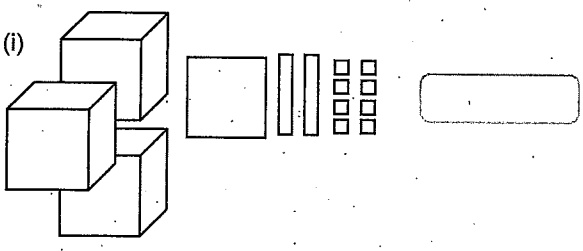
a) (i)



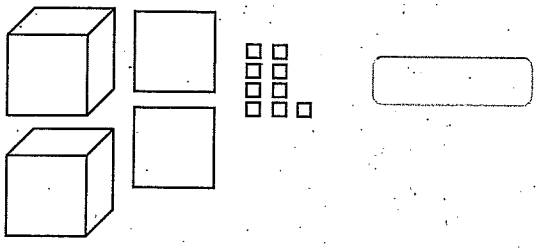
(ii)



b) (i)



(ii)



2. Circle the greater number in each pair.

   a) 47 or forty-eight b) three thousand, five hundred seven or 3 508 c) ninety-four or 88

   d) six hundred fifty-five or 662 e) 60 385 or sixty thousand four hundred twenty-five

3. List all the two-digit numbers you can make using the digits provided (using each digit only once). Then circle the greatest one.

   a) 6, 7 and 8 b) 2, 9 and 4 c) 5, 2, and 0

4. Create the greatest possible <u>four-digit</u> number using the digits given. Only use each digit once.

   a) 4, 3, 2, 6 _____ b) 7, 8, 9, 4 _____ c) 0, 4, 1, 2 _____

5. Create the greatest possible number using these digits. Only use each digit once.

   a) 3, 4, 1, 2, 8 _____ b) 2, 8, 9, 1, 5 _____ c) 3, 6, 1, 5, 4 _____

6. Use the digits to create the greatest number, the least number and a number in between.

	Digits	Greatest Number	Number in Between	Least Number
a)	8 5 7 2 1			
b)	2 1 5 3 9			
c)	3 0 1 5 3			

#8

NS6-8: Comparing Numbers (Advanced) *(continued)*

7. Arrange the numbers in order, starting with the least number.

a) 683 759, 693 238, 693 231

_____, _____, _____

b) 473 259, 42 380, 47 832

_____, _____, _____

c) 385 290, 928 381, 532 135

_____, _____, _____

d) 2 575, 38 258, 195

_____, _____, _____

8. What is the greatest number less than 10 000 whose digits are all the same? _____

9. Identify the greater number by writing > or <.

a) 63 752 ☐ 63 750

b) 927 385 ☐ 928 303

c) 572 312 ☐ 59 238

d) 1 230 075 ☐ 1 230 123

10.

City	Population
Ottawa	774 072
Hamilton	662 401
Kitchener	414 284

a) Which city has a population greater than 670 000?

_____

b) Write the populations in order from least to greatest.

_____

11. What is the greatest possible number you can create that has ...

a) 3 digits? _____ b) 4 digits? _____ c) 5 digits? _____

12. Using the digits 0, 1, 2, 3, 4, create an even number greater than 42 000 and less than 43 000.

13. Using the digits 4, 5, 6, 7, 8, create an odd number greater than 64 000 and less than 68 000.

14. What digit can be substituted for ☐ to make each statement true?

a) 54 ☐ 21 is between 54 348 and 54 519.

b) 76 ☐ 99 is between 76 201 and 76 316.