

Reasoning and Problem Solving

Step 5: Compare and Order to 100,000

National Curriculum Objectives:

Mathematics Year 5: (5N2) [Read, write, order and compare numbers to at least 1,000,000](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Using a key (with the value of amounts in order greatest to smallest) to create and order different numbers within a set parameter. Using a variety of pictorial representations and numerals only.

Expected Using a key (with the value of amounts in any order) to create and order different numbers within a set parameter. Using a variety of pictorial representations, numerals and words.

Greater Depth Using a key (with the value of amounts in any order) to create and order different numbers within a set parameter. Using a variety of pictorial representations, numerals, words and some use of Roman numerals and some use of unconventional partitioning.

Questions 2, 5 and 8 (Reasoning)

Developing Explain if a group of numbers have been ordered correctly. Using a variety of pictorial representations and numerals only.

Expected Explain if a group of numbers have been ordered correctly. Using a variety of pictorial representations, numerals and words.

Greater Depth Explain if a group of numbers have been ordered correctly. Using a variety of pictorial representations, numerals, words and some use of Roman numerals and some use of unconventional partitioning.

Questions 3, 6 and 9 (Problem Solving)

Developing Find different possibilities to make a statement correct. Using a variety of pictorial representations and numerals only.

Expected Find different possibilities to make a statement correct. Using a variety of pictorial representations, numerals and words.

Greater Depth Find different possibilities, within given parameters, to make a statement correct. Using a variety of pictorial representations, numerals, words and some use of Roman numerals and some use of unconventional partitioning.

More [Year 5 Place Value](#) resources.

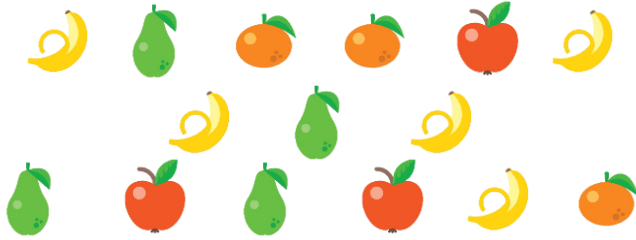
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Compare and Order to 100,000

Compare and Order to 100,000

1a. Use the key to work out the number being represented.

 =100	 =1,000	 =10	 =10,000
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Use the key to create 5 numbers between 35,000 and 36,000.

Write the numbers in descending order.



PS

1b. Use the key to work out the number being represented.

 =10,000	 =1,000	 =100	 =1
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Use the key to create 5 numbers between 43,000 and 44,000.

Write the numbers in ascending order.



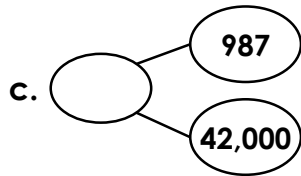
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2a. Megan has ordered the following numbers in ascending order.

a.

41,000 500 76

b. 41,382



d. 43,102

Is Megan correct? Explain your answer.



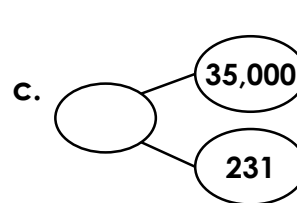
R

2b. Taha has ordered the following numbers in descending order.

a.

37,000 600 27

b. 37,206



d. 36,974

Is Taha correct? Explain your answer.



R

3a. Add four counters to the place value chart to make the statement still correct.



57,456	>	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●
		● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●

Find three different possibilities.



PS

3b. Add four counters to the place value chart to make the statement still correct.



54,294	>	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●
		● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●

Find three different possibilities.



PS

Compare and Order to 100,000

Compare and Order to 100,000

4a. Use the key to work out the number being represented.

 = 1,000	 = 10,000	 = 100	 = 10
--	--	---	--






Use the key to create 5 numbers between sixty-four and sixty-five thousand. Write the numbers in descending order.



PS

4b. Use the key to work out the number being represented.

 = 100	 = 1,000	 = 1	 = 10,000
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Use the key to create 5 numbers between fifty-six and fifty-seven thousand. Write the numbers in ascending order.



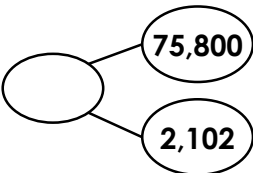
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5a. Charlie has ordered the following numbers in ascending order.

a.

75,000 2,310 65

b. 79,210

c. 

d. Seventy-six thousand, four hundred and twenty-five.

Is Charlie correct? Explain your answer.




R

5b. Tahida has ordered the following numbers in descending order.

a.

62,000 1,250 49

b. Sixty-three thousand, one hundred and eighty-four.

c. 

d. 62,598

Is Tahida correct? Explain your answer.



R

6a. Add four counters to the place value chart to make the statement still correct.



Sixty-four thousand, five hundred and twenty-five >

TTh	T	H	T	O

Find three different possibilities.



PS

6b. Add four counters to the place value chart to make the statement still correct.



Eighty-two thousand, nine hundred and forty-seven >

TTh	T	H	T	O

Find three different possibilities.



PS

Compare and Order to 100,000

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7a. Use the key to work out the number being represented.

 = 100 tens	 = 5,000	 = X	 = L
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Use the key to create 5 numbers between fifty-four and fifty-five thousand. Write the numbers in descending order.



PS

7b. Use the key to work out the number being represented.

 = C	 = 5 tens	 = M	 = 5,000
---	--	---	---



Use the key to create 5 numbers between forty-one and forty-two thousand. Write the numbers in ascending order.



PS

8a. Amelia has ordered the following numbers in ascending order.

a.

66,000 1,100 24 tens

b. 68,210

c.

	MML
	66,107

d. Sixty-seven thousand, seventeen hundreds and fifty-nine

Is Amelia correct? Explain your answer.



R

8b. Lucas has ordered the following numbers in descending order.

a.

58,600 19 hundreds 6

b. Fifty-nine thousand, nine hundred and sixteen tens.

c.

	58,125
	MXX

d. 59,109

Is Lucas correct? Explain your answer.



R

9a. Using only four counters place them in two different columns to make the statement still correct.



Fifty-eight thousand, four hundred and ninety-two tens. >

TTh	T	H	T	O
●●●●	●●●●		●	●●●●

Find three different possibilities.



PS

9b. Using only four counters place them in two different columns to make the statement still correct.



Seventy-one thousand, nineteen hundreds and five >

TTh	T	H	T	O
●●●●	●	●●●●	●●●●	●●●●

Find three different possibilities.



PS

Reasoning and Problem Solving Compare and Order to 100,000

Developing

1a. 35,430. Accept representations of numbers between 35,000 and 36,000 using the key and written in descending order.

2a. Megan is not correct because b. 41,382 is greater than a. 41,576. The correct order is b, a, c, d.

3a. Various answers, for example: 57,325; 57,334; 57,415; 57,424; 57,424

Expected

4a. 63,260. Accept representations of numbers between 64,000 and 65,000 using the key and written in descending order.

5a. Charlie is not correct because b. 79,210 is greater than a. 77,375. The correct order is d, a, c, b.

6a. Various answers, for example: 63,525; 63,624; 63,714; 62,814; 62,715; 62,625.

Greater Depth

7a. 44,420. Accept representations of numbers between 54,000 and 55,000 using the key and written in descending order.

8a. Amelia is not correct because b is greater than the whole of c which is 68,157. The correct order is a, c, b, d.

9a. Various answers, for example: 59,313; 59,043; 58,233; 58,215; 58,035.

Reasoning and Problem Solving Compare and Order to 100,000

Developing

1b. 43,403. Accept representations of numbers between 43,000 and 44,000 using the key and written in ascending order.

2b. Taha is not correct because c. 35,231 is less than d. 36,974. The correct order is a, b, d, c.

3b. Various answers, for example: 53,294; 52,295; 53,393; 53,483.

Expected

4b. 56,304. Accept representations of numbers between 56,000 and 57,000 using the key and written in ascending order.

5b. Tahida is not correct c. 62,551 is less than d. 62,598. The correct order is a, b, d, c.

6b. Various answers, for example: 82,936; 82,927; 82,837; 82,846; 81,928; 81,937.

Greater Depth

7b. 39,650 Accept representations of numbers between 41,000 and 42,000 using the key and written in ascending order.

8b. Lucas is not correct because b is 60,060 and is the greatest number. The correct order is b, a, c, d.

9b. Various answers, for example: 71,844; 71,826; 71,646; 72,844; 72,826.