

Reasoning and Problem Solving

Step 9: Compare and Order to a Million

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 (Reasoning)

Developing Determine whether a statement is true or false and explain why when comparing and ordering numbers up to 1,000,000 using multiples of 10, 100 and 1,000. Using numerals and marked number lines. Using comparison vocabulary and inequality symbols.

Expected Determine whether a statement is true or false and explain why when comparing and ordering numbers up to 1,000,000 using numerals and marked number lines. Using comparison vocabulary and inequality symbols.

Greater Depth Determine whether a statement is true or false and explain why when comparing and ordering numbers up to 1,000,000 using numerals and words mixed within questions, and number lines with only start and end points marked. Using comparison vocabulary and inequality symbols.

Questions 2, 5 and 8 (Problem Solving)

Developing Identify which child has the number from given statements when comparing and ordering numbers up to 1,000,000. Differentiation as above.

Expected Identify which child has the number from given statements when comparing and ordering numbers up to 1,000,000. Differentiation as above.

Greater Depth Identify which child has the number from given statements when comparing and ordering numbers up to 1,000,000. Differentiation as above.

Questions 3, 6 and 9 (Problem Solving)

Developing Complete a statement from given digit cards, finding all possibilities when comparing and ordering numbers up to 1,000,000. Differentiation as above.

Expected Complete a statement from given digit cards, finding all possibilities when comparing and ordering numbers up to 1,000,000. Differentiation as above.

Greater Depth Complete a statement from given digit cards, finding all possibilities when comparing and ordering numbers up to 1,000,000. Differentiation as above.

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

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1a. True or false?

HTh	TTh	Th	H	T	O
•••	•	•••	•••		

>

314,060

Give reasons for your answer.



R

1b. True or false?

HTh	TTh	Th	H	T	O
•••		••			

<

400,200

Give reasons for your answer.



R

2a. Work out which child has the number card according to their statements.

13,967

My number has 6 ones and is less than 14,000.



Hafsa



Ben

My number has 9 hundreds and rounds to 14,000.



PS

2b. Work out which child has the number card according to their statements.

24,571

My number has 7 tens and is less than 25,000.



Josh



Chuan

My number rounds to 24,000 and has 7 tens.



PS

3a. Use the digit cards to make the statement correct.

3

1

2

22,50__ > 22,501

Is there more than one possible solution?



PS

3b. Use the digit cards to make the statement correct.

6

4

5

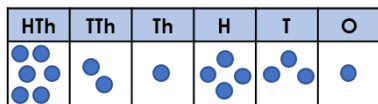
5__,143 > 55,143

Is there more than one possible solution?



PS

4a. True or false?



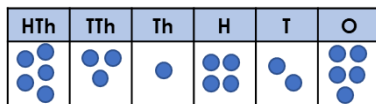
612,423

Give reasons for your answer.



R

4b. True or false?



531,452

Give reasons for your answer.



R

5a. Work out which child has the number card according to their statements.

139,805

My number has 8 hundreds and rounds to 130,000.



Lucy

My number has 5 ones and is less than 140,000.



Arthur



PS

5b. Work out which child has the number card according to their statements.

214,507

My number rounds to 220,000 and has 0 tens.



Billy

My number has 5 hundreds and rounds to 210,000.



David



PS

6a. Use the digit cards to make the statement correct.

1

3

2

87 __, 20 __ > 872,201

Is there more than one possible solution?



PS

6b. Use the digit cards to make the statement correct.

4

5

6

45 __, 1 __ 3 > 455,143

Is there more than one possible solution?



PS

7a. True or false?

Three hundred and twenty-six thousand, two hundred and fifty-three

<

362,253

Give reasons for your answer.



R

7b. True or false?

Six hundred and three thousand, two hundred and thirty-two

>

631,452

Give reasons for your answer.



R

8a. Work out which child has the number card according to their statements.

Two hundred and sixty-five thousand, eight hundred and eighty-nine

My number has 9 ones and is less than 265,900.



Tomas

My number has 8 hundreds and rounds to 265,800.



Emma



PS

8b. Work out which child has the number card according to their statements.

Six hundred and sixty-eight thousand, nine hundred and one

My number rounds to 700,000 and has 9 tens.



Betsy

My number has 1 more hundreds than thousands and rounds to 700,000.



Rob



PS

9a. Use the digit cards to make the statement correct.

1

3

5

20 __ , __ 1 __ > 201,315

Is there more than one possible solution?



PS

9b. Use the digit cards to make the statement correct.

4

2

6

45 __ , 2 __ __ > 452,246

Is there more than one possible solution?



PS

Reasoning and Problem Solving Compare and Order to a Million

Developing

1a. True. 314,600 is greater than 314,060 because the digits in the hundreds column are different. 6 is greater than 0.

2a. Ben

3a. Two solutions: 22,502; 22,503

Expected

4a. False. 621,431 is greater than 612,423 because the digits in the ten thousands column are different. 2 is greater than 1.

5a. Arthur

6a. Three solutions: 873,201; 873,202; 872,203

Greater Depth

7a. True. 326,253 is less than 362,253 because the digits in the ten thousands column are different. 2 is less than 6.

8a. Tomas

9a. Five solutions: 203,511; 203,115; 205,311; 205,113; 201,513

Reasoning and Problem Solving Compare and Order to a Million

Developing

1b. False. 402,000 is greater than 400,200 because the digits in the thousands column are different. 2 is greater than 0.

2b. Josh

3b. One solution: 56,143

Expecting

4b. False. 531,425 is less than 531,452 because the digits in the tens column are different. 5 is greater than 2.

5b. David

6b. Three solutions: 456,143; 456,153; 455,163

Greater Depth

7b. False. 603,232 is less than 631,452 because the digits in the ten thousands column are different. 0 is less than 3.

8b. Rob

9b. Five solutions: 454,226; 454,262; 456,224; 456,242; 452,264