

Grade 4 · Place Value to One Million · Test Answer Key

Common Core 4.NBT.A.1, 4.NBT.A.2 · mathovore.fr

This answer key gives the worked solution and the point-by-point scoring for the place value test. Add the points for all nine questions to get a score out of 20. A score of 16 or more shows strong understanding of place value and comparing numbers.

Grade 4 Common Core: 4.NBT.A.1 · 4.NBT.A.2

Question 1: Value of a digit (2 points)

Thousands period			Ones period		
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
7	4	8	2	0	5
700,000	40,000	8,000	200	0	5

The 7 is in the hundred thousands place and the 4 is in the ten thousands place.

- a. The 7 is in the hundred thousands place: **700,000**.
- b. The 4 is in the ten thousands place: **40,000**.

Scoring: 1 point for each correct value. Give no credit for 7 or 4 alone.

Question 2: Ten times as much (2 points)

- a. $2 \times 10 = 20$ and $200 \times 10 = 2,000$. The missing numbers are **20** and **2,000**.
- b. The 5 in the thousands place is worth 5,000. The 5 in the hundreds place is worth 500. $500 \times 10 = 5,000$, so it is **10 times** as much.

Scoring: 1 point for both missing numbers (give no credit if only one is right). 1 point for the answer 10 times.

Question 3: Names and numerals (2 points)

- a. **seventy thousand four hundred eight**
- b. **312,605**

Scoring: 1 point for each correct answer. Accept a comma after thousand in part (a).

Question 4: Expanded form (2 points)

- a. $50,000 + 6,000 + 30$. The ones and hundreds places hold 0, so they are left out.
b. 2 hundred thousands, 0 ten thousands, 9 thousands, 0 hundreds, 4 tens, 7 ones:
209,047.

Scoring: 1 point each. In part (a), do not accept $5,000 + 600 + 30$.

Question 5: Compare numbers (2 points)

- a. The first difference is in the tens place: 0 is less than 2. $38,502 < 38,520$
b. 410,006 has six digits and 99,999 has five. $410,006 > 99,999$

Scoring: 1 point for each correct symbol.

Question 6: Order four numbers (2 points)

6,345 has four digits, so it is least. The others share 63 on the left. Their hundreds digits are 4, 0, 4 (63,450; 63,054; 63,405), so 63,054 is next. Then compare the tens of 63,450 and 63,405: 5 is greater than 0.

6,345; 63,054; 63,405; 63,450

Scoring: 2 points for the correct order. 1 point if exactly one pair of neighbors is swapped.

Question 7: Place-value disks (3 points)

Thousands period			Ones period		
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
	4	0	7	3	9
	40,000	0	700	30	9

The number shown by the disks.

- a. **40,739**
b. **forty thousand seven hundred thirty-nine**
c. $40,000 + 700 + 30 + 9$

Scoring: 1 point for each part. In part (c), the 0 thousands place must not be written as a term.

Question 8: Explain the sixes (3 points)

Thousands period			Ones period		
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
	6	6	0	6	0
	60,000	6,000	0	60	0

The three 6s in 66,060 are worth 60,000; 6,000; and 60.

- The 6s are worth **60,000; 6,000; and 60**.
- $6,000 \times 10 = 60,000$, so it is **10 times** as much.
- Gabe is not correct. The first different place is the hundreds place: 0 in 66,060 and 6 in 66,600. So $66,060 < 66,600$.

Scoring: 1 point for all three values; 1 point for 10 times; 1 point for saying not correct with the hundreds-place reason.

Question 9: Sofia's number (2 points)

- $700,000 + 30,000 + 500 + 2 = \mathbf{730,502}$
- The first three digits match. In the hundreds place, 5 is greater than 2. $730,502 > 730,250$

Scoring: 1 point each. In part (b), accept the comparison for the student's own numeral if it is written correctly.

Total
20 points