

Grade 4 - Place Value to One Million - Answer Key

Common Core 4.NBT.A.1, 4.NBT.A.2 · maths-pdf.fr/en/

Check each answer here and read the steps if you missed a problem. Every solution names the place of each digit, shows the multiplication or comparison, and gives the final answer in bold so it is easy to find.

Grade 4 · Common Core State Standards: **4.NBT.A.1, 4.NBT.A.2**

Exercise 1 - Value of a digit

Write the digits by place: 5 thousands, 8 hundreds, 6 tens, 2 ones.

The 8 is in the hundreds place, so its value is $8 \times 100 = 800$.

800

Exercise 2 - Name the place

Count places from the right: 9 ones, 1 tens, 4 hundreds, 3 thousands, 7 ten thousands.

The 7 is in the **ten thousands** place.

Exercise 3 - Value in a big number

Thousands			Ones		
hundreds	tens	ones	hundreds	tens	ones
4	6	2	1	5	9

The 6 is in the ten thousands column.

The chart shows 6 in the ten thousands column.

$$6 \times 10,000 = 60,000$$

60,000

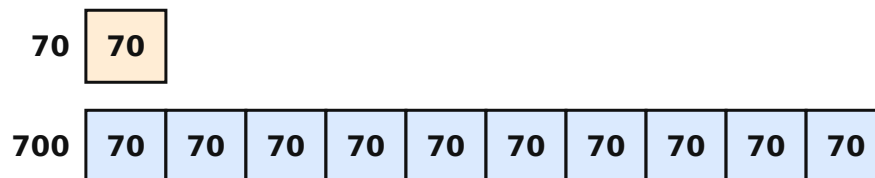
Exercise 4 - Ten times as much

Multiply by 10: $400 \times 10 = 4,000$.

Check: the 4 moves one place to the left, from hundreds to thousands.

4,000

Exercise 5 - Compare two sevens



Ten bars of 70 make 700.

The diagram shows ten bars of 70 in 700.

$$700 \div 70 = 10$$

10 times as much

Exercise 6 - Two sixes in a row

First 6: 600,000. Second 6: 60,000.

$$600,000 \div 60,000 = 10$$

10 times as much

Exercise 7 - Expanded form

6 thousands, 2 hundreds, 0 tens, 5 ones.

$$6,000 + 200 + 5$$

$$6,000 + 200 + 5$$

Exercise 8 - Standard form from expanded

4 ten thousands, 3 thousands, 6 hundreds, 0 tens, 8 ones.

43,608

Exercise 9 - Word form

Read each period. 52 thousand, then 14.

fifty-two thousand, fourteen

Exercise 10 - Standard form from words

306 thousand and 40. The hundreds place has no value, so it is 0, and the ones place is 0.

$$306,000 + 40 = 306,040$$

306,040

Exercise 11 - Compare thousands

Thousands and hundreds match (4 and 5). In the tens place, 0 is less than 9.

$$4,509 < 4,590$$

Exercise 12 - Compare six-digit numbers

The digits match through the hundreds place (1, 2, 0, 3). In the tens place, 6 is greater than 4.

$$120,364 > 120,346$$

Exercise 13 - Order from least to greatest

The ten thousands digits are 5, 5, and 5, so compare the thousands: 6, 6, and 8. Therefore 58,062 is greatest.

For 56,820 and 56,082, the hundreds are 8 and 0, so 56,082 is less.

56,082, 56,820, 58,062

Exercise 14 - Read the chart

The chart reads 2, 0, 8, 4, 1, 5 from left to right: 208,415.

The highlighted 4 is in the hundreds column, so its value is $4 \times 100 = 400$.

208,415; **400**

Exercise 15 - Stadium crowd

12,486: 1 ten thousand, 2 thousands, 4 hundreds, 8 tens, 6 ones.

The 2 is worth $2 \times 1,000 = 2,000$.

Word form: twelve thousand, four hundred eighty-six.

2,000; twelve thousand, four hundred eighty-six

Exercise 16 - Mystery number

Standard form: 8, 3, 0, 7, 2 gives 83,072.

Expanded form: $80,000 + 3,000 + 70 + 2$ (the hundreds place is 0, so there is no hundreds term).

$83,072 = 80,000 + 3,000 + 70 + 2$

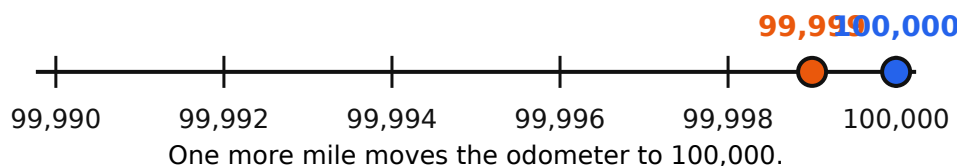
Exercise 17 - City populations

Oak Hill starts 89, so it is least. The other three start 98.

Compare the hundreds: Maple Grove has 4, Cedar Falls has 0, Pine Bluff has 5. Greatest first: Pine Bluff (5), Maple Grove (4), Cedar Falls (0).

Pine Bluff 98,504, Maple Grove 98,450, Cedar Falls 98,054, Oak Hill 89,540

Exercise 18 - Odometer rolls over



$$99,999 + 1 = 100,000.$$

The 1 is in the hundred thousands place, so its value is 100,000.

Check: 100,000 is ten times 10,000.

100,000; 100,000

Exercise 19 - Who is right?

Count places in 350,260: 3 hundred thousands, 5 ten thousands, 0 thousands, 2 hundreds, 6 tens, 0 ones.

The 5 is worth $5 \times 10,000 = 50,000$, so Noah is correct and Mei is not. Mei used the thousands place by mistake.

Noah is correct; the 5 is worth 50,000.

Exercise 20 - Stickers by ten

Carton: $4,000 \times 10 = 40,000$.

Pallet: $40,000 \times 10 = 400,000$.

Word form: four hundred thousand.

400,000; four hundred thousand