

Place Value to 1,000: practice solutions, Grade 2 – download the PDF

Written solutions to the chapter problems. Check each step, then correct yourself.

1 Reading the blocks



There are 2 flats (2 hundreds), 5 rods (5 tens) and 4 cubes (4 ones). So

$$200 + 50 + 4 = 254.$$

The blocks show 254.

2 What is each digit worth?



The 6 is in the hundreds place: it is worth 600. The 1 is in the tens place: it is worth 10. The 8 is in the ones place: it is worth 8.

The values are 600, 10 and 8.

3 Write the number



Put 7 in the hundreds place, 0 in the tens place and 3 in the ones place.

The number is 703. The 0 holds the tens place.

4 Expanded form



4 hundreds is 400, 5 tens is 50 and 9 ones is 9.

$$459 = 400 + 50 + 9$$

5 From words to digits



“Five hundred” gives 5 in the hundreds place. “Twelve” is 1 ten and 2 ones.

The number is 512.

6 Count by 10s



Add 10 each time: $140 + 10 = 150$, $150 + 10 = 160$, $160 + 10 = 170$.

130, 140, 150, 160, 170.

7 Write in words



340 is 3 hundreds and 4 tens, with no ones.

Three hundred forty.

8 From expanded form



- a. 6 hundreds, 2 tens, 5 ones: **625**.
- b. 9 hundreds, no tens, 9 ones: **909**.
- c. 5 hundreds, 7 tens, no ones: **570**.

9 Count by 5s



Add 5 each time: 285, 290, 295, and then $295 + 5 = 300$.

275, 280, 285, 290, 295, 300. Notice that the hundreds digit changes at 300.

10 Count by 100s



Each jump adds 1 hundred, so only the hundreds digit goes up.

236, 336, 436, 536, 636. The next four numbers are 336, 436, 536 and 636.

11 How many tens?



a) 340 is 3 hundreds and 4 tens. Each hundred is 10 tens, so $30 + 4 = 34$ tens. **34 tens.**

b) 507 is 5 hundreds, which is 50 tens, and 0 more tens, with 7 ones left over. **50 tens and 7 ones.**

12 Three ways



a. $400 + 10 + 3 = 413$. This is the standard way.

b. $413 - 300 - 3 = 110$, and 110 is 11 tens. **3 hundreds, 11 tens, 3 ones:**
 $300 + 110 + 3 = 413$.

c. $413 - 3 = 410$, and 410 is 41 tens. **41 tens, 3 ones.**

13 True or false?



a. **True.** The tens digit of 905 is 0, so there are 0 tens.

b. **False.** The first 5 is in the hundreds place and is worth 500. The second 5 is in the tens place and is worth only 50.

14 The library boxes



6 boxes is 600 books, 3 bundles is 30 books and 8 single books is 8 books.

$$600 + 30 + 8 = 638$$

The library has 638 books.

15 Garden flowers



25 rows of 10 flowers is 25 tens, or 250.

Counting by 10s: 10, 20, 30, ... , 240, 250 (25 jumps).

She plants 250 flowers.

16 Mystery number



The tens digit is twice 3, which is 6. The digits are 5, 6 and 3.

The number is **563**. Check: hundreds 5, tens $6 = 2 \times 3$, ones 3.

17 Largest and smallest



A three-digit number cannot start with 0. The possible numbers are 407, 470, 704 and 740.

The largest is 740 and the smallest is 407.

18 Trading blocks



a. $200 + 130 + 5 = 335$. Mia has 335.

b. 10 rods trade for 1 flat. Now she has 3 flats and 3 rods left, plus 5 cubes. **3 flats, 3 rods and 5 cubes: $300 + 30 + 5 = 335$.**

19 Find the mistake



After 690 comes $690 + 10 = 700$, not 800. The hundreds digit changed by 1 only because 9 tens trade up to 1 hundred. Leo jumped by 100 instead of 10.

Correct list: 670, 680, 690, 700, 710.

20 Points on a number line



a) $A = 320$, $B = 350$, $C = 380$.

b) C is the closest to 400. $400 - 380 = 20$, so C is 20 away from 400.

21 Bags of rolls



36 bags of 10 rolls is 36 tens, which is 360. Then $360 + 8 = 368$.

The bakery has 368 rolls: three hundred sixty-eight.

22 Reaching 1,000



a) 10 hundreds make 1,000. Each hundred is 10 tens, so $10 \times 10 = 100$ tens make 1,000.

b) $999 + 1 = 1,000$, one thousand.

c) 600, 700, 800, 900, 1,000.



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