

Comparing and Ordering Numbers: practice solutions, Grade 2 – download the PDF

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

1 Fill in the symbol



- a. Same hundreds. Tens: $4 < 8$. So $148 < 184$.
- b. Same hundreds. Tens: $7 > 0$. So $570 > 507$.
- c. All digits match, so $300 = 300$.
- d. Same hundreds. Tens: $1 < 5$. So $615 < 651$.
- e. 99 has no hundreds and 101 has 1 hundred, so $99 < 101$.
- f. Same hundreds. Tens: $2 > 0$. So $820 > 802$.

2 Which digit decides?



- a. The hundreds match, so the tens decide: $5 < 8$. Then $452 < 482$.
- b. The hundreds are different: $7 > 6$. Then $719 > 619$.
- c. The hundreds and tens match, so the ones decide: $5 < 9$. Then $835 < 839$.

3 Biggest and smallest



The hundreds digits are 2, 2, 4, 4. The cards 426 and 462 are the biggest group. Tens: $6 > 2$, so $462 > 426$. The cards 264 and 246 are the smallest group. Tens: $4 < 6$, so $246 < 264$.

The greatest number is **462** and the least number is **246**.

4 Order four numbers



Hundreds: 5 and 5, then 8 and 8. Between 580 and 508: $508 < 580$. Between 850 and 805: $805 < 850$.

Answer: **508, 580, 805, 850**.

5 Jump by 10



- a. The tens digit goes up by one: $346 + 10 = 356$.
- b. 9 tens plus 1 ten makes 10 tens, which is 1 more hundred: $590 + 10 = 600$.
- c. $721 - 10 = 711$.
- d. 0 tens, so we take 1 hundred apart into 10 tens: $804 - 10 = 794$.

6 Jump by 100



- a. The hundreds digit goes up: $237 + 100 = 337$.
- b. $650 + 100 = 750$.
- c. The hundreds digit goes down: $912 - 100 = 812$.
- d. $905 - 100 = 805$.

7 Counting on and back



(a) Each number is 1 more: 697, 698, **699, 700, 701**.

(b) Each number is 1 less: 403, **402, 401, 400, 399**.

8 The apple orchard



Hundreds match (3). Tens: **6** > **5**, so **365** > **356**. Green Hill picked more.

$$365 - 356 = 9.$$

Answer: Green Hill picked 9 more apples than Sunny Row.

9 True or false?



a. False. The hundreds match, and the tens are **0** < **9**. So **509** < **590**.

b. False. Mia looked at the ones. The tens decide: **1** < **8**, so **618** < **681**.

c. True. 6 hundreds and 1 hundred make 7 hundreds.

d. True. The hundreds match, and the tens are **4** < **5**.

10 Missing digit



The hundreds match (4), so compare the tens. We need the tens digit to be 6 or more. With 6 we get **467**, and **467** > **465** because the ones are **7** > **5**. With 5 we get **457**, which is too small.

Answer: the digits **6, 7, 8, and 9** work.

11 Mystery number



Numbers between 640 and 650 have 6 hundreds and 4 tens. With 7 ones, the number is **647**.

Check: **640 < 647 < 650**.

12 Skip counting



- a. Add 5 each time: **240, 245, 250, 255**.
- b. Add 10 each time: **350, 360, 370, 380**.
- c. Add 100 each time: **375, 475, 575**.

13 Read the number line



- a. The labeled marks go by 10 and the small marks are halfway, so they count by 5.
Then A is **325**, B is **340**, and C is **385**.
- b. Moving right means bigger: **325 < 340 < 385**, so A, B, C.
- c. Distances to 350: A is **350 - 325 = 25**, B is **350 - 340 = 10**, C is **385 - 350 = 35**.
Point **B** is the closest.

14 Mental math table



- 478 + 10 = 488**: the tens digit changed.
- 478 + 100 = 578**: the hundreds digit changed.
- 478 - 10 = 468**: the tens digit changed.
- 478 - 100 = 378**: the hundreds digit changed.

15**Five numbers in order**

The hundreds digits are 7, 7, 3, 3, 4. So the order of groups is 3, then 4, then 7.

Group 3: 347 and 374. Tens: $4 < 7$, so **347** < **374**.

Group 4: only 437.

Group 7: 734 and 743. Tens: $3 < 4$, so **734** < **743**.

Least to greatest: **347, 374, 437, 734, 743**.

Greatest to least: **743, 734, 437, 374, 347**.

16**Number machines**

a. $285 + 100 = 385$.

b. We need a number minus 10 that equals 385. Go up 10 from 385: $385 + 10 = 395$.

Check: $395 - 10 = 385$. So put in **395**.

17**Find the skipped number**

a. From 540, adding 10 gives 550, not 560. Leo skipped **550**.

b. Subtract 100 each time: **800, 700, 600, 500**.

18**Compare on a number line**

a. The labeled marks go by 100 and the small marks by 50. So K is **150**, L is **450**, and M is **850**.

b. Distances to 500: K is 350, L is 50, M is 350. Point **L** is the closest.

c. M is farther to the right, so **850** > **150**. M is greater.

d. $450 + 100 = 550$.

19 The can drive



- a. $478 < 487 < 748$. The order is **2A, 2B, 2C**.
- b. Rooms 2A and 2B. $487 - 478 = 9$, so they differ by **9 cans**.
- c. $478 + 300 = 778$. Since $778 > 748$, **yes**, 2A will have more than 2C.

20 Digits 2, 5, and 8



Put each digit in the hundreds place in turn.

Hundreds 2: 258 and 285. Hundreds 5: 528 and 582. Hundreds 8: 825 and 852.

In each pair, the smaller tens digit comes first.

Answer: **258, 285, 528, 582, 825, 852**.

21 Will I say it?



- a. Yes. 365 ends in 5.
- b. No. 702 ends in 2, not 0 or 5.
- c. Yes. 1,000 ends in 0.
- d. No. When counting by 10s every number ends in 0, and 365 ends in 5.



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