

Block 3: Order 6-digit Numbers (3 sessions)

Session 3A

Complete Daily Review and Quick Teach 3A

Complete 3A – Fact Fluency

Teach Lesson 3A – Order 6-digit Numbers

Lesson 3A – Order 6-digit Numbers

Lesson Resources	
Teacher Resources	Resources per Student
Classroom whiteboard Workbook – 3A Visualiser	Mini whiteboard Workbook – 3A

Section A – Comparing Numbers

Teacher Resources - Section A	Resources per Student - Section A
Classroom whiteboard	Mini whiteboard

Step	Instruction
1.	Today, we are learning to order numbers . What are we learning to do?~ Before we order numbers, let's practise comparing them.
2.	(Write 3,751 and 893 on whiteboard, ensuring that place values are aligned) 3 , 7 5 1 8 9 3
3.	When we compare numbers, we start with the largest place value. (Point to thousands digit) The largest place value is thousands. What is the largest place value?~ Thousands (Point to thousands digit) The top number has 3 thousands. The bottom number has no thousands, or 0 thousands. 3 or 0, which is bigger?~ The top number is bigger because it has 3 thousands and the bottom number has none.
4.	(Write 63 , at the beginning of the bottom number) 3 , 7 5 1 6 3 , 8 9 3
5.	The bottom number has changed. Remember, we start with the largest place value . Which place value?~ (Point to 6 in bottom number) The bottom number has a 6 in the ten thousands place. (Point to top number) The top number has no ten thousands. Top or bottom, which number is bigger?~ Bottom That's right. Now the bottom number is bigger.
6.	(Write 2 at the beginning of the top number) 2 3 , 7 5 1 6 3 , 8 9 3

-
7. The top number has changed.
I still want to know which number is bigger.
Largest or smallest, which place value do we start with?~
-

8. (Point to 2 in top number) The top number has a 2 in the ten thousands place.
(Point to 6 in bottom number) The bottom number has a 6.
Top or bottom, which number is bigger?~ **Bottom**
That's right. The bottom number is still bigger.
-

9. (Wipe the 2 in the top number and write 6 in its place)

6	3	,	7	5	1
6	3	,	8	9	3

-
10. The top number has changed.
Largest or smallest, which place value do we start with?~
-

11. (Point to leftmost column) Both numbers begin with a 6.
When they're the same, we look at the next digit.
(Point to the next column) Both numbers have a 3 here.
We need to look at the next digit again.
-

12. (Point as you say) 7 or 8, which is bigger?~
Top or bottom, which number is bigger?~ **Bottom**
That's right. The bottom number is bigger.
-

13. (Wipe board, write 5,014, then 391 below)
Your turn.
Look at these numbers.
Write the **bigger** number on your whiteboard. (Support)
-

14. 3, 2, 1, **Chin it!**
Boards down.
(Point to 5,014) The top number is bigger.
Wipe it.
-

15. (Wipe board, write 452,913, then 628,004 below)
Write the **bigger** number. (Check)
-

16. 3, 2, 1, **Chin it!**
Boards down.
(Point to 628,004) The bottom number is bigger.
Wipe it.
-

17. (Wipe board, write 9,844, then 10,761 below)
This time, write the **smaller** number. (Check)
-

18. 3, 2, 1, **Chin it!**
Boards down.
(Point to 9,844) The top number is smaller.
Wipe it.
-

19. (Wipe board, write 75,014, then 75,068 below)
Write the **smaller** number. (Check)
-

20. 3, 2, 1, **Chin it!**
Boards down.
(Point to 75,014) The top number is smaller.
Wipe it.
-

21. (Wipe board, write 58,066, then 7,089 alongside)

5	8	,	0	6	6		7	,	0	8	9
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From now on, the numbers will be written side by side.

22.	I want to find the bigger number. We use the same steps as before. Largest or smallest, which place value do we start with?~
23.	(Point to 5 in first number) The first number has a 5 in the ten thousands place. (Point to second number) The second has no ten thousands.
24.	First or second, which number is bigger?~ That's right. The first number is bigger. It has 5 ten thousands, and the second number has none.
25.	(Wipe board, write 810,093 , then 875,400 alongside) I want to find the bigger number.
26.	Look at the largest place value. Are they the same or different?~ They're the same, so we need to look at the next digit. Look at the next digit in each number. Are they the same or different ?~ (Point to 1 in first number) This number has 1, (Point to 7 in second number) and this number has 7.
27.	First or second , which number is bigger?~ That's right. The second number is bigger because 7 is bigger than 1.
28.	(Wipe board, write 3,758 , then 448,210 alongside) Your turn. Look at these numbers. Write the bigger number on your whiteboard. (Support)
29.	3, 2, 1, Chin it! Boards down. (Point to 448,210) The second number is bigger. Wipe it.
30.	(Wipe board, write 5,853 , then 5,417 alongside) Look at these numbers. Write the bigger number on your whiteboard. (Support)
31.	3, 2, 1, Chin it! Boards down. (Point to 5,853) The first number is bigger. Wipe it.
32.	(Wipe board, write 92,888 , then 126,087 alongside) Look at these numbers. Write the smaller number on your whiteboard. (Support)
33.	3, 2, 1, Chin it! Boards down. (Point to 92,888) The first number is smaller. Wipe it.
34.	(Wipe board, write 358,264 , then 358,874 alongside) Look at these numbers. Write the smaller number on your whiteboard. (Support)
35.	3, 2, 1, Chin it! Boards down. (Point to 358,264) The first number is smaller. Wipe it.

Section B – Ordering Numbers

Teacher Resources - Section B	Resources per Student - Section B
As above	As above

Step Instruction

1. You know how to compare numbers to tell which is smaller or bigger.
Let's use that skill to **order** numbers.

2. (Write **372,684**, then **7,233** and **49,058** alongside)

3 7 2 , 6 8 4 7 , 2 3 3 4 9 , 0 5 8

3. Here is a set of three numbers. I'm going to teach you how to order them.
There are two ways to order numbers.
We can order them from smallest to biggest or from biggest to smallest.

4. I'm going to order this set from **smallest to biggest**. How will I order them?~
Remember, smallest to biggest is called **ascending** order. Which order?~

5. We'll start by finding the **smallest** number. Which number?~

Look at the numbers.

(Point to each number) First, **second**, or third, which number is the smallest?~

That's right. The second number is the smallest.

6. I write it below, then cross it out from the top.

(Write 7,233, then cross it out from the top)

3 7 2 , 6 8 4 ~~7 , 2 3 3~~ 4 9 , 0 5 8
7 , 2 3 3

7. Now we find the smallest number out of those that are left.

Look at the numbers.

(Point to each number) First or **third**, which number is the smallest now?~

That's right. The third number is the smallest.

8. I write it below, then cross the top number out.

(Write 49,058, then cross it out)

3 7 2 , 6 8 4 ~~7 , 2 3 3~~ ~~4 9 , 0 5 8~~
7 , 2 3 3 4 9 , 0 5 8

9. Now I can write the number that is left and cross it out from the top.

(Write 372,684, then cross it out)

~~3 7 2 , 6 8 4~~ ~~7 , 2 3 3~~ ~~4 9 , 0 5 8~~
7 , 2 3 3 4 9 , 0 5 8 3 7 2 , 6 8 4

10. (Point to each number) Now the numbers are in order from smallest to biggest.
The numbers are in **ascending** order. Which order?~

11. (Wipe board, write **15,107**, then **348,203** and **59,866** alongside)
Let's order this set from smallest to biggest again.
Remember, this is called **ascending** order. Which order?~

12. Your turn.

Look at the numbers.

Find the smallest number and write it. (Support)

13.	Markers down. Eyes up. (Point to each number) First , second, or third, which number is the smallest?~ That's right. You should have written the first number. I'm going to cross out the number so we know what is left. (Cross out 15,107 and write it below) You will cross out the numbers once you start your workbook page.
14.	Look at the numbers that are left. Find the smallest number and write it.
15.	Markers down. Eyes up. (Point to each number) Second or third , which number is the smallest?~ That's right. You should have written the third number below. (Cross out 59,866 and write it below)
16.	Write the remaining number below. (Check) 3, 2, 1, Chin it! Boards down. (Cross out 348,203 and write it below) Check that your numbers are in ascending order like mine. Wipe it.
17.	(Wipe board, write 641,578 , then 692,700 and 329,012 alongside) I'm going to order this set from biggest to smallest . How will I order them?~ Remember, biggest to smallest is called descending order. Which order?~
18.	We'll start by finding the biggest number. Which number?~ Look at the numbers. (Point to each number) First, second , or third, which number is the biggest?~ That's right. The second number is the biggest.
19.	I write it below, then cross it out from the top. (Write 692,700, then cross it out from the top)
20.	Now we find the biggest number out of those that are left. Look at the numbers. (Point to each number) First or third, which number is the biggest now?~ That's right. The first number is the biggest.
21.	I write it below, then cross the top number out. (Write 641,578, then cross it out)
22.	Now I can write the number that is left and cross it out from the top. (Write 329,012, then cross it out)
23.	(Point to each number) Now the numbers are in order from biggest to smallest. The numbers are in descending order. Which order?~
24.	(Wipe board, write 3,700 , then 152,222 and 99,444 alongside) Let's order this set from biggest to smallest again. Remember, this is called descending order. Which order?~
25.	Your turn. Look at the numbers. Find the biggest number and write it. (Support)
26.	Markers down. Eyes up. (Point to each number) First, second , or third, which number is the biggest?~ That's right. You should have written the second number. (Cross out 152,222 and write it below)
27.	Look at the numbers that are left. Find the biggest number and write it.

28. Markers down. Eyes up.
(Point to each number) First or **third**, which number is the biggest?~
That's right. You should have written the third number below.
(Cross out 99,444 and write it below)
29. Write the remaining number below. (Check)
3, 2, 1, **Chin it!**
Boards down.
(Cross out 3,700 and write it below)
Check that your numbers are in descending order like mine.
Wipe it.
30. (Wipe board, write **5,600**, then **3,100** and **82,300** alongside)
When I say go, I want you to write these numbers in **ascending** order. Which order?~
Remember, ascending means **smallest to biggest**. What does ascending mean?~
Go. (Support)
31. 3, 2, 1, **Chin it!**
Boards down.
Check your work as I say the numbers in ascending order.
3,100 5,600 82,300.
Wipe it.
32. (Wipe board, write **275** and **8,114**, then **603** and **971** alongside)
When I say go, I want you to write these numbers in **ascending** order. Which order?~
Remember, ascending means **smallest to biggest**. What does ascending mean?~
Go. (Support)
33. 3, 2, 1, **Chin it!**
Boards down.
Check your work as I say the numbers in ascending order.
275, 603, 971, 8,114.
Wipe it.

Section C – Independent Practice

Teacher Resources - Section C	Resources per Student - Section C
Workbook – 3A Visualiser	Workbook – 3A

Step Instruction

- (Place **Workbook - 3A** under visualiser)
Open your workbook to 3A. (Check)
Read the instructions at the top with me.
Rewrite the numbers in ascending order (smallest to biggest).
These instructions are for Problems A, B, C, and D.
- Let's solve Problem A together.
Eyes up.
Do we start with **the smallest** or the biggest number? (Check)
(Point to each number) First, second, or **third**, which number is smallest?
- I write it on the line, then cross it out from the top.
(Write **5,630** on the line, then cross it out)
Your turn. Write the smallest number on the line, then cross it out from the top. (Check)
Pencils down.
Now that you have the numbers written for you, you can cross them out with me.
Crossing numbers out helps us know what is left.

4.	Eyes up. (Point to each number) First or second, which number is the smallest now? Write it, then cross it out from the top list. (Check) (Write 29,903, then cross it out)
5.	Write the number that is left, then cross it out from the top. (Check) (Write 718,244, then cross it out) Check your work as I say the numbers in ascending order. 5,630 29,903 718,244.
6.	Look at Problem B. When I say go, rewrite the numbers in ascending order, from smallest to biggest. Go. (Support)
7.	Pencils down. Check your work as I say the numbers in ascending order. 41,877 42,005 68,433.
8.	Let's skip to Problem E. Read the instructions above Problem E with me. Rewrite the numbers in descending order (biggest to smallest). These instructions are for Problems E, F, G, and H.
9.	When I say go, solve Problem E on your own. Remember to start by writing the biggest number. Go. (Support)
10.	Pencils down. Check your work as I read the numbers in descending order. 875,246 71,145 4,100.
11.	Soon you will solve the rest, but I want to show you something first. Turn to Page 2 and find Problem M. Problems M and N sit below double lines. Problems below double lines can be a bit harder. Give them a try once you finish the other problems.
12.	Turn back to Page 1. I'm going to give you one last tip. Make sure you know which order to write the numbers in before you solve each problem. The most common mistake for these problems is to write the numbers in the wrong order. If you're not sure, read the instructions above each set. Solve the rest of the problems now. (Support students as they work independently)
13.	(Conclude lesson by correcting together, then reading the final step below.)
14.	You just learned to write numbers in ascending and descending order! Being able to order numbers can help you figure out the best price for something or know who completed a race in the fastest time.

Student Workbook Answers:

Page 1:

A. 5,630 29,903 718,244

B. 41,877 42,005 68,433

C. 11,250 248,842 671,289 997,560

D. 525,811 527,066 537,412 549,070

E. 875,246 71,145 4,100

F. 67,814 38,054 35,977

G. 881,011 825,573 752,384 701,663

H. 909,531 907,234 903,724 900,444

Page 2:

I. 22,497 41,023 53,891 57,778 68,735

J. 31,075 36,878 39,083 97,861 98,777

K. 600,001 578,149 571,633 368,050 361,597

L. 417,578 416,978 416,578 416,468 416,388

M. 623 5,829 7,018 26,145 73,382 73,832 85,648 227,940 285,649 757,148

N. 95,952 95,529 92,529 59,592 59,259 52,925 25,925 25,592 25,529 25,259

This concludes your maths session for today.