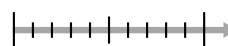


4

Comparing and Ordering Numbers

You will need

- number lines



Goal

Compare and order numbers with up to five digits.

Heather is a Blue Jays fan. She collected data about attendance at Toronto games.

Baseball Attendance

Blue Jays' opponents	Average attendance in Toronto
Orioles	20 572
Devil Rays	20 459
Expos	31 571
Yankees	27 205
Angels	20 106



? Which opponent team drew the greatest attendance in Toronto?



Heather's Comparison

I will start by comparing the Expos and the Yankees.

31 571 is greater than 31 thousand.

27 205 is less than 28 thousand.

31 is greater than 28, so more people came to see the Expos than the Yankees.

- Do you agree with Heather? Explain how to compare the two numbers using base ten blocks.
- Show how to compare the numbers using a number line.

27 000 28 000 29 000 30 000 31 000 32 000
- Use **inequality signs** to compare the attendance for the Expos and the Yankees.
- Order the five attendance numbers from least to greatest. Which team had the greatest average attendance in Toronto?

inequality signs

$>$ and $<$ are inequality signs.

$8 > 5$ is read as "eight is greater than five."

$5 < 8$ is read as "five is less than eight."

Reflecting

1. Would a number line be a good way to compare the Angels and Orioles numbers? Explain why or why not.
2. How does knowing how to compare four-digit numbers help you to compare five-digit numbers?

Checking

3. Heather also collected data for attendance at Blue Jays games at opponents' stadiums.
 - a) Which team drew a greater attendance: the Orioles or the Yankees? Explain your strategy.
 - b) Order the attendance numbers from least to greatest.

Baseball Attendance

Blue Jays' opponents	Average attendance at opponent's stadium
Expos	12 782
Orioles	27 955
Devil Rays	9 048
Yankees	33 916
Angels	41 088

Practising

4. Complete each number sentence using $<$ or $>$.

a) 10 999 \blacksquare 10100	c) 56 091 \blacksquare 58 091	e) 30 000 \blacksquare 29 999
b) 4587 \blacksquare 4576	d) 32 231 \blacksquare 23 321	f) 97 560 \blacksquare 70 650
5. Write an attendance number for each description.
 - a) a bit greater than 50 000
 - b) between 20 000 and 45 000, but closer to 45 000
6. Order these numbers from least to greatest.
78 420 78 402 78 024 7842
7. Attendance at a Montreal Canadiens hockey game was posted using number cards. The cards fell down.
 - a) The arena holds 21 273 people. What might have been the attendance? List five numbers made up of these digits. Explain your thinking.
 - b) Order your numbers from least to greatest.
 - c) How did you decide which number was greatest?
8. Yoshi says it's easier to compare 13 100 to 18 143 than to 13 216. Do you agree? Explain.

