LESSON MAKER PRO

Integer Line-Up

Use number lines to compare and order integers.

GRADE 6 · 6.NS.2.b

6.NS.2.b "Compare and order integers using a number line."

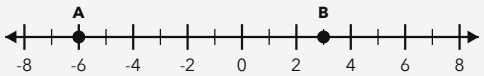
NAME _____ DATE _____

LEFT AND RIGHT

On a horizontal number line, integers increase as you move right and decrease as you move left. An integer farther right is greater. To order integers, identify the leftmost value first for least to greatest order.

WORKED EXAMPLE

Use the number line to compare the integers at A and B. Write <, >, or =.

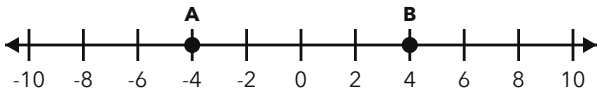


1. Point A is at -6.
2. Point B is at 3.
3. A is to the left of B.
4. The integer to the left is smaller.

Answer: -6 < 3

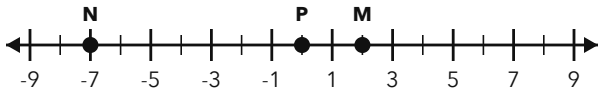
PRACTICE 6 problems

1 Use the number line. Complete the comparison for A and B with <, >, or =.



ANSWER _____

2 Use the number line. List the integers at M, N, and P from least to greatest.



ANSWER _____

3 Complete the comparison with <, >, or =: -12 ___ -15

ANSWER _____

4 Order these integers from greatest to least: 14, -1, 9, -11

ANSWER _____

5 Which integer is farthest right on a number line: -5, 7, -2, or 1?

ANSWER _____

6 Order these integers from least to greatest: -20, -13, -17, 0

ANSWER _____

APPLY IT Show your work

1 An online game tracks score changes after four matches. Jada had -18 points, Leon had 11 points, Priya had -2 points, and Omar had 5 points. Order the score changes from least to greatest.

WORK SPACE

ANSWER _____

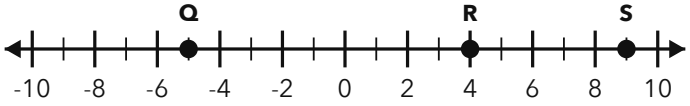
2 At a comic convention, Kai is on floor -4, Ren is on floor 12, Sol is on floor 1, and Val is on floor -9. Who is on the highest floor? Who is on the lowest floor?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The number line shows Q, R, and S. Integer T is 2 units left of R. What is T? Then order Q, T, R, and S from greatest to least. Explain how you know.



WORK SPACE AND ANSWER

ANSWER KEY

Integer Line-Up

GRADE 6 · 6.NS.2.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the number line. Complete the comparison for A and B with <, >, or =.	**-4 < 4**
2	Use the number line. List the integers at M, N, and P from least to greatest.	**-7, 0, 2**
3	Complete the comparison with <, >, or =: -12 ___ -15	**-12 > -15**
4	Order these integers from greatest to least: 14, -1, 9, -11	**14, 9, -1, -11**
5	Which integer is farthest right on a number line: -5, 7, -2, or 1?	**7**
6	Order these integers from least to greatest: -20, -13, -17, 0	**-20, -17, -13, 0**

PART 2 · APPLY IT

1. **-18, -2, 5, 11** Place negative score changes to the left of zero and positive score changes to the right. Read the values from left to right.
2. **Ren is on the highest floor. Val is on the lowest floor.** The greatest integer names the highest floor, and the least integer names the lowest floor. Since 12 is greatest and -9 is least, Ren is highest and Val is lowest.

CHALLENGE

T = 2. Greatest to least: S, R, T, Q, or 9 > 4 > 2 > -5. T is two ticks left of R, and values decrease to the left.

Accept equivalent comparison statements that use the correct symbols. For ordered lists, accept labels or integer values when the requested order is correct.