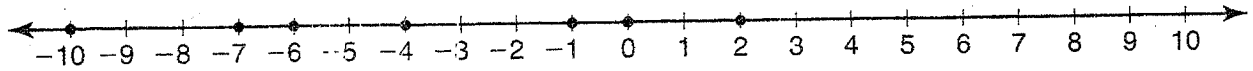


# Comparing and Ordering Integers

When comparing two integers on a number line, the integer that is farther to the right is greater. The integer that is farther to the left is less.



Compare  $-6$  and  $-10$ .

Because  $-6$  is farther to the right than  $-10$ , it is greater. So  $-6 > -10$ .

Compare  $-1$  and  $2$ .

Because  $2$  is farther to the right than  $-1$ , it is greater. So  $2 > -1$ .

Order  $-4$ ,  $0$ ,  $-7$  from least to greatest.

Because  $-7$  is the farthest to the left, it is the least.  $0$  is farther to the right than  $-4$ , so  $-4$  is the next least. So, the numbers in order from least to greatest are  $-7$ ,  $-4$ , and  $0$ .

Use  $>$ ,  $<$ , or  $=$  to compare.

1.  $-5 \bigcirc 3$

2.  $15 \bigcirc -4$

3.  $13 \bigcirc 27$

4.  $52 \bigcirc |-52|$

5.  $-9 \bigcirc |-9|$

6.  $-6 \bigcirc -7$

7.  $123 \bigcirc 132$

8.  $267 \bigcirc 227$

9.  $-9 \bigcirc -9$

10. **Reasoning** Write three integers less than  $-27$ .

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11. Order  $15$ ,  $-7$ ,  $-12$ ,  $0$ , and  $5$  from least to greatest.

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12. Order  $-19$ ,  $-24$ ,  $17$ ,  $-28$ ,  $19$ , and  $-17$  from least to greatest.

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# Comparing and Ordering Integers

Use  $<$ ,  $>$ , or  $=$  to compare.

1.  $6 \bigcirc -8$

2.  $-12 \bigcirc -11$

3.  $2 \bigcirc |-2|$

4.  $12 \bigcirc -11$

5.  $11 \bigcirc -1$

6.  $|-3| \bigcirc 4$

Order from least to greatest.

7.  $-6, 4, 7, 0, -9$  \_\_\_\_\_

8.  $-1, -5, 5, 7, -8$  \_\_\_\_\_

9.  $-7, -8, -2, 6, |-11|, -11, -9, 4, 5$  \_\_\_\_\_

10. **Reasoning** Can any negative integer be greater than a positive integer? Explain.

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\_\_\_\_\_

\_\_\_\_\_

Kyle kept track of the number of points he scored each time he played a video game. Sometimes the score is less than zero.

Kyle's Scores	
Play 1:	Gained 5 points
Play 2:	Lost 15 points
Play 3:	Gained 32 points
Play 4:	Gained 10 points
Play 5:	Lost 12 points
Play 6:	Lost 8 points

11. Order the negative plays from least to greatest.

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12. Order the positive plays from greatest to least.

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## Test Prep

13. Which integer is greatest?

A. 1

B.  $-10$

C. 9

D. 3

14. **Writing in Math** Explain how to find the greatest integer on a number line.

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