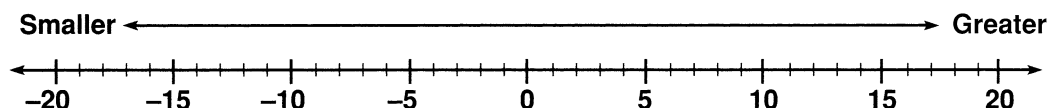


Comparing and Ordering Integers

You can use a number line to compare positive and negative numbers.
The numbers on a number line get greater as you move to the right
and smaller as you move to the left.



Compare -3 to -4.

Find each number on the number line.

-3 is to the right of -4, so -3 is greater than -4.

$$-3 > -4$$

Compare -15 to 5.

Find each number on the number line.

-15 is to the left of 5, so -15 is less than 5.

$$-15 < 5$$

Compare each set of numbers. Write $>$ or $<$.

- | | | | | |
|----------------------|-------------------|-------------------|------------------|-------------------|
| 1. $-2 \square 3$ | 4 $\square -3$ | 0 $\square 2$ | $-6 \square -5$ | 12 $\square -12$ |
| 2. $-5 \square -10$ | 1 $\square -2$ | $-15 \square 5$ | $-19 \square 9$ | 10 $\square 3$ |
| 3. $17 \square 12$ | $-8 \square -7$ | $-6 \square 0$ | 14 $\square -13$ | 7 $\square -7$ |
| 4. $-3 \square 2$ | 16 $\square 12$ | $-4 \square 4$ | $-8 \square -9$ | $-11 \square 10$ |
| 5. $-14 \square -15$ | $-20 \square -16$ | $-17 \square 17$ | $-1 \square -2$ | 3 $\square 0$ |
| 6. $5 \square -10$ | 6 $\square 8$ | $-12 \square 10$ | 15 $\square -1$ | 19 $\square -19$ |
| 7. $-10 \square -4$ | 8 $\square -8$ | $-7 \square 6$ | 3 $\square 1$ | $-16 \square -13$ |
| 8. $11 \square 12$ | 20 $\square -16$ | $-18 \square -17$ | 13 $\square 0$ | $-20 \square -5$ |

Write each set of numbers in order from least to greatest.

- | | | | |
|---------------------------|-------------|------------|-------------|
| 9. -10, 3, 0
-10, 0, 3 | 7, 9, -7 | -4, 2, -12 | -6, -15, -8 |
| 10. 15, 8, 0 | 16, -11, -2 | 14, -20, 5 | -1, 2, 0 |
| 11. -16, -13, -18 | 6, 20, -14 | 1, -2, -3 | -5, -8, 9 |

Solve.

12. Which is colder: -12° or -20° ?

Answer _____

13. Which is higher: -3,000 feet or 3,000 feet?

Answer _____

14. Which is warmer: -30° or 3° ?

Answer _____

15. Which is lower: -500 feet or -1,000 feet?

Answer _____

Comparing and Ordering Integers

Answer Key

- | | | | | |
|---------------------|---------------|--------------|---------------|-------------|
| 1. $-2 < 3$ | $4 > -3$ | $0 < 2$ | $-6 < -5$ | $12 > -12$ |
| 2. $-5 > -10$ | $1 > -2$ | $-15 < 5$ | $-19 < 9$ | $10 > 3$ |
| 3. $17 > 12$ | $-8 < -7$ | $-6 < 0$ | $14 > -13$ | $7 > -7$ |
| 4. $-3 < 2$ | $16 > 12$ | $-4 < 4$ | $-8 > -9$ | $-11 < 10$ |
| 5. $-14 > -15$ | $-20 < -16$ | $-17 < 17$ | $-1 > -2$ | $3 > 0$ |
| 6. $5 > -10$ | $6 < 8$ | $-12 < 10$ | $15 > -1$ | $19 > -19$ |
| 7. $-10 < -4$ | $8 > -8$ | $-7 < 6$ | $3 > 1$ | $-16 < -13$ |
| 8. $11 < 12$ | $20 > -16$ | $-18 < -17$ | $13 > 0$ | $-20 < -5$ |
| 9. $-10, 0, 3$ | $-7, 7, 9$ | $-12, -4, 2$ | $-15, -8, -6$ | |
| 10. $0, 8, 15$ | $-11, -2, 16$ | $-20, 5, 14$ | $-1, 0, 2$ | |
| 11. $-18, -16, -13$ | $-14, 6, 20$ | $-3, -2, 1$ | $-8, -5, 9$ | |
| 12. -20° | | | | |
| 13. 3,000 feet | | | | |
| 14. 3° | | | | |
| 15. $-1,000$ feet | | | | |

