

Going Camping with...POSITIVE AND NEGATIVE INTEGERS

A bunch of friends are making plans for a camping trip. Each of them is wearing a T-shirt with a different integer. Look at the T-shirt for each friend.



The absolute value of an integer is its distance from zero on a number line. Opposites have the same absolute value.

Complete the following table.

	What is the Integer?	Is it (P)ositive or (N)egative?	What is its opposite?	What is its Absolute Value?
1. Chad	3	P	-3	3
2. Zoey				
3. Mike				
4. Sam				
5. Yolanda				
6. Matt				
7. Basha				
8. Toni				

An integer is greater than all integers to the left of it on a number line.

An integer is less than all integers to the right of it on a number line.

9. How many t-shirts have integers greater than ($>$) Zoey's? 4
10. How many are $>$ Chad's? _____
11. How many are $<$ Basha's? _____
12. How many are $>$ Toni's? _____
13. How many are $<$ Yolanda's? _____
14. How many are $<$ Toni's? _____

15. List the eight T-shirt integers in order from smallest to largest:

Compare the following integers. Write $>$ or $<$ on each line.

16. 5 _____ 0 17. 0 _____ -3 18. -4 _____ -8 19. -8 _____ 6

20. Write the following integers in order from smallest to largest:

- a. 20, -20, 4, -7, 3, 0, 6, -1 _____
- b. 11, 0, 5, -6, 2, 9, -8 _____

Sketch number lines to show your reasoning.

A. Order these temperatures from least to greatest.

0°F 115°F -15°F -32.5°F -40°F 113.2°F -32.7°F

B. For each pair of temperatures, identify which temperature is further from -2°F .

1. 6°F or -6°F ?

2. -7°F or 3°F ?

3. 2°F or -5°F ?

4. -10°F or 7°F ?

C. Identify the temperature that is halfway between each pair of temperatures.

1. 0°F and 10°F

2. -5°F and 15°F

3. 5°F and -15°F

4. 0°F and -20°F

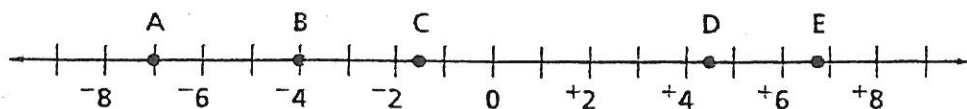
5. -8°F and 8°F

6. -6°F and 6°F

7. During one week, the high temperature was 60°F . The halfway temperature was 15°F . What was the low temperature?

D. Name six temperatures between -2°F and $+1^{\circ}\text{F}$. Order them from least to greatest.

E. 1. Estimate values for points A–E.



2. How does the number line help you find the smaller value of two numbers?

F. What are the opposites of these numbers?

1. 3

2. 7.5

3. $-2\frac{2}{3}$

4. What is the sum of a number and its opposite?