

Lesson Summary

- To find the distance between two rational numbers on a number line, you can count the number of units between the numbers.
- Using a formula, the distance between rational numbers, p and q , is $|p - q|$.
- Distance is always positive.
- Change may be positive or negative. For instance, there is a -4° change when the temperature goes from 7° to 3° .

Problem Set

1. $|-19 - 12|$

2. $|19 - (-12)|$

3. $|10 - (-43)|$

4. $|-10 - 43|$

5. $|-1 - (-16)|$

6. $|1 - 16|$

7. $|0 - (-9)|$

8. $|0 - 9|$

9. $|-14.5 - 13|$

10. $|14.5 - (-13)|$

11. Describe any patterns you see in the answers to the problems in the left- and right-hand columns. Why do you think this pattern exists?