

7th Grade

- CCSS.MATH.CONTENT.7.NS.A.1** Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. [7.NS.A.1](#)
- a** **CCSS.MATH.CONTENT.7.NS.A.1.A** Describe situations in which opposite quantities combine to make 0. For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged. [7.NS.A.1.A](#)
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- b** **CCSS.MATH.CONTENT.7.NS.A.1.B** Understand $p + q$ as the number located a distance $|q|$ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts. [7.NS.A.1.B](#)
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- c** **CCSS.MATH.CONTENT.7.NS.A.1.C** Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts. [7.NS.A.1.C](#)
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- d** **CCSS.MATH.CONTENT.7.NS.A.1.D** Apply properties of operations as strategies to add and subtract rational numbers. [7.NS.A.1.D](#)