**MAFS.7.NS.1** Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

 **MAFS.7.NS.1.1** 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.

**MAFS.7.NS.1.1a** 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.

**MAFS.7.NS.1.1b** 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.

**MAFS.7.NS.1.1c** 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.

**MAFS.7.NS.1.1d** Apply properties of operations as strategies to add and subtract rational numbers.

**Item Type**

**Multiple Choice**

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