

7.NS.1: Worksheet

Solutions

1. If an atom of phosphorous has 15 positively-charged protons and 15 negatively-charged electrons, what is its total charge? What will its charge be if it loses one of its electrons? **The atom's total charge is 0, since the protons and electrons cancel each other out. If it loses an electron, it'll have a charge of +1.**
2. What's the additive inverse of $-\frac{187}{13}$? **The additive inverse is $\frac{187}{13}$.**
3. What is the sum of $6.\overline{5963}$ and its additive inverse? **The sum is 0.**
4. Ted owes Gabrielle \$23.59 that she lent him for lunch last month. If he just made \$100.17 in tips at his job as a waiter, how much will he have left over after he pays back Gabrielle? **He'll have \$76.58 left.**
5. Write $10.693 - 13.222$ as an addition problem using the additive inverse. What's the sum? **Addition problem: $10.693 + (-13.222)$. Sum: -2.529 .**
6. What's the distance between the points $-\frac{18}{5}$ and $\frac{33}{10}$ on a number line? (Hint: it's not the same as their sum.) **The distance between them is $\frac{69}{10}$ units.**
7. Wallace is trying to meet up with his buddy Jacques. If Wallace is 5.6 miles east of the town center and Jacques is 0.45 miles west of the town center, how far apart are they? **The two friends are 6.05 miles apart.**
8. On her morning jog, Barbara runs 3.4 km north, then turns around and runs another 4.32 km south. How far is she from her starting point? **She's now 0.92 km south of where she started.**
9. What is $\frac{17}{10} - 4.7 + \frac{7}{5}$? **The sum is -1.6 .**
10. Alissa is running super late for work. If she walks 7 blocks to her office, then doubles back 3.5 blocks because she left her purse at the coffee shop midway between home and work, then walks the rest of way back to her office, how far has she walked in total? **She's walked 14 blocks.**