

Problem Set

For each of the following two quantities in Problems 1–4, which has the greater magnitude? (Use absolute value to defend your answers.)

1. 33 dollars and -52 dollars
2. -14 feet and 23 feet
3. -24.6 pounds and -24.58 pounds
4. $-11\frac{1}{4}$ degrees and 11 degrees

For Problems 5–7, answer true or false. If false, explain why.

5. The absolute value of a negative number will always be a positive number.
6. The absolute value of any number will always be a positive number.
7. Positive numbers will always have a higher absolute value than negative numbers.
8. Write a word problem whose solution is $|20| = 20$.
9. Write a word problem whose solution is $|-70| = 70$.
10. Look at the bank account transactions listed below, and determine which has the greatest impact on the account balance. Explain.
 - a. A withdrawal of \$60
 - b. A deposit of \$55
 - c. A withdrawal of \$58.50