ALBERT

Name _____ Date _____

Absolute Value Worksheet

Grade 6 · Common Core 6.NS.C.7c

> Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.

Practice

Builds the skill step by step.

1. Find $|-9|$.

2. Find $|14|$.

3. Find $|0|$.

4. Which number has an absolute value of 6?

   A. $\frac{1}{6}$

   B. $-\frac{1}{6}$

   C. -6

   D. 0

5. Find $|-2.5|$.

6. Name both numbers that have an absolute value of 11.

7. Find $|-\frac{3}{4}|$.

8. Which is equal to $|-20|$?

   A. -20

   B. $\frac{1}{20}$

   C. 20

   D. 0

9. A diver is at -40 feet. How far is she from the surface?

10. Find $|-7| + |7|$.

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On Level

Grade-level practice.

1. Order from least to greatest: $|-8|$, $|3|$, $|-5|$, $|0|$

2. A bank account has a balance of $-\$35$. Write the size of the debt as an absolute value and explain it.

3. Which statement is true?

   A. $|-12| > |8|$

   B. $|-12| < |8|$

   C. $-12 > 8$

   D. $|-12| = -12$

4. Is -15 greater or less than -9? Is $|-15|$ greater or less than $|-9|$?

5. The temperature is $-6°F$. How many degrees is it from $0°F$?

6. Find $|-4.8| - |2.3|$.

7. An account balance less than $-\$30$ means a debt of more than $30. Which balance shows a debt of more than $30?

   A. $-\$18$

   B. $30

   C. $-\$30$

   D. $-\$42$

8. Write two different numbers whose absolute value is $\frac{5}{8}$.

9. Order from greatest to least: -3, $|-4|$, $|2|$, -5

10. Elevations: Point A is at -18 meters and Point B is at 12 meters. Which is farther from sea level?

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Challenge

Multi-step and word problems that stretch it.

1. Find all numbers x with $|x| = 3.5$.

2. Evaluate: $|-9| - |-4| + |3|$

3. Sasha says $|-10|$ is less than $|-2|$ because -10 is less than -2. Is she right? Explain.

4. Which describes all numbers with an absolute value less than 4?

   A. Numbers less than 4

   B. Numbers greater than -4

   C. Numbers less than -4 or greater than 4

   D. Numbers between -4 and 4

5. Four accounts have balances $-\$50$, $-\$12$, $\$25$ and $-\$31$. Which balance shows the largest debt, and how much is it?

6. A submarine is at -220 feet. A dolphin is at -35 feet. How many feet farther from the surface is the submarine?

7. Is it ever true that $|a| = a$? Is it ever true that $|a| = -a$? Give an example of each.

8. Order from least to greatest: $|-\frac{2}{3}|$, $-\frac{3}{4}$, $|\frac{1}{2}|$, $-|-1|$

9. The temperature in Town A is $-14°F$ and in Town B it is $9°F$. Which town's temperature is farther from $0°F$, and by how many degrees?

10. Write a number n so that $n < -6$ and $|n| < 7$.