Name: **Grade:** **Score:**

Worksheet #2

ABSOLUTE VALUE

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Learning goal: Students will understand the meaning of absolute value, apply it to integers, and use its properties to solve questions.

1. If $|x| = 5$ and $x < 0$, what is the value of x?

2. True or False: The absolute value of any integer is always positive.

3. If $|a| = 14$ and $|b| = 14$, then a and b could be?

4. If $|y| = 17$, what are the possible values of y?

5. Evaluate $|-25| - |10|$.

6. True or False: For any integer *n*, $|n|$ is always greater than or equal to 0.

7. If $|d| = |-8|$, what are the possible values of *d*?

Worksheet #2(Answers)

ABSOLUTE VALUE

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Learning goal: Students will understand the meaning of absolute value, apply it to integers, and use its properties to solve questions.

1. If $|x| = 5$ and $x < 0$, what is the value of x?

Solution: x = –5

2. True or False: The absolute value of any integer is always positive.

Solution: False (it is always non-negative; it can be zero too).

3. If $|a| = 14$ and $|b| = 14$, then a and b could be?

Solution: a = 14 or –14, b = 14 or –14

4. If $|y| = 17$, what are the possible values of y?

Solution: y = 17 or y = –17

5. Evaluate $|{-25}| - |10|$.

Solution: 25 - 10 = 15

6. True or False: For any integer *n*, $|n|$ is always greater than or equal to 0.

Solution: True

7. If $|d| = |{-8}|$, what are the possible values of *d*?

Solution: Since $|{-8}| = 8$, then $|d| = 8$. So, d = 8 or d = –8.