Worksheet #5

MeandMath
BELIEVE YOURSELF

ABSOLUTE VALUE

Learning goal: Students will apply properties of absolute value in solving questions involving addition, subtraction, multiplication, and equations.

1. If $|y| - |-8| = 2$, what is the value of $|y|$?

2. What is the value of $|0| + |-15|$?

3. Simplify the expression: $|-11| - |11|$.

4. Calculate $|-1| \times |25| \times |-2|$.

5. If $|a| + |b| = 20$ and $|a| = 12$, what is $|b|$?

6. Evaluate $|-100| \div |-10|$.

7. Simplify: $|-9| + |4| - |-3|$.

Worksheet #5(Answers)

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ABSOLUTE VALUE

Learning goal: Students will apply properties of absolute value in solving questions involving addition, subtraction, multiplication, and equations.

1. If |y| – | –8 | = 2, what is the value of |y|?

Solution: |y| – 8 = 2 → |y| = 10

2. What is the value of | 0 | + | –15 |?

Solution: 0 + 15 = 15

3. Simplify the expression: | –11 | – | 11 |.

Solution: 11 – 11 = 0

4. Calculate | –1 | × | 25 | × | –2 |.

Solution: 1 × 25 × 2 = 50

5. If |a| + |b| = 20 and |a| = 12, what is |b|?

Solution: 12 + |b| = 20 → |b| = 8

6. Evaluate | –100 | ÷ | –10 |.

Solution: 100 ÷ 10 = 10

7. Simplify: | –9 | + | 4 | – | –3 |.

Solution: 9 + 4 – 3 = 10