Unit 5 Objective 6 Remediation

Determine if the Solution is Correct

To determine if a number is a solution to an equation, substitute the number in for the variable and solve the expression on each side. If the two expressions are equal, the number is a solution to the equation. If the two expressions are not equal, the number is not a solution to the equation.

Example 1: Determine if 3 is a solution to the equation $22x = -66$

Solution: $22x = -66$

$22 \cdot 3 = -66$

$66 \neq -66$

No, it's not a solution.

Example 2: Determine if -2 is a solution to the equation $-1 = \frac{1}{2}x$

Solution: $-1 = \frac{1}{2}x$

$-1 = \frac{1}{2} \cdot -2$

$-1 = -1$

Yes, it's a solution.

Example 3: Determine if -12.2 is a solution to the equation $-6.1 = \frac{x}{2}$

Solution: $-6.1 = \frac{x}{2}$

$-6.1 = \frac{-12.2}{2}$

$-6.1 = -6.1$

Yes, it's a solution.

Try These

1. $-11m = 55$; 5

2. $-70 = -7y$; 10

3. $-4.2a = -12.6$; -3

4. $-6d = -42$; 8

5. $8y = -40$; -4

6. $18x = -216$; -11

7. $11.4 = 5.7x$; 2

8. $-4.9y = -9.8$; 3

9. $-7a = 49$; -6

10. $-85 = -5s$; 15

11. $3y = 16$; $\frac{1}{3}$

12. $-4n = -22$; $\frac{11}{2}$

13. $-5x = 20$; -4

14. $4.5h = 101.25$; -67.5