

Use the choices below to fill in each blank. Not all choices will be used.

1. By the _____ property of equality,
 $y = \frac{1}{2}$ and $5 \cdot y = 5 \cdot \frac{1}{2}$ are equivalent equations.
2. True or False: The equations $\frac{z}{4} = 10$ and $4 \cdot \frac{z}{4} = 10$ are equivalent equations. _____
3. True or False: The equations $-7x = 30$ and $\frac{-7x}{-7} = \frac{30}{7}$ are equivalent equations. _____
4. By the _____ property of equality,
 $9x = -63$ and $\frac{9x}{9} = -\frac{63}{9}$ are equivalent equations.

Solve

5. $2x = 0$

6. $\frac{3}{4}n = -15$

7. $\frac{d}{15} = 2$

8. $19.55 = 8.5y$

9. $-x + 4 = -24$

10. $\frac{b}{4} - 1 = -7$

11. $19 = 0.4x - 0.9x - 6$

12. $\frac{2}{7}z - \frac{1}{5} = \frac{1}{2}$

13. $2(4x + 1) = -12 + 6$

14. $8 + 4 = -6(5x - 2)$

15. $\frac{1}{3}(3x - 1) = -\frac{1}{10} - \frac{2}{10}$

16. $-3x + 15 = 3x - 15$

17. If x represents the first of two consecutive odd integers, express the sum of the two integers in terms of x .

18. The sum of three consecutive odd integers is -39 . Write an algebraic equation and solve. Identify the three integers.

19. The sum of three consecutive even integers is 342 . Write an algebraic equation and solve. Identify the three integers.