

Pre-3 Worksheet (2 pages)

1. $2(2d + 1) - 3d = 5(3d - 2) + 4d$ 2. $-4(7y - 1) + 5y = -2(3y + 4) - 3y$

3. $4[3 + 5(3 - x) + 2x] = 6 - 2x$ 4. $-3[x + 4(x + 1)] = x + 4$

5. $\frac{2}{9}t - \frac{5}{6} = \frac{1}{12}t$

6. $\frac{2}{3}x - \frac{5}{6}x - 3 = \frac{1}{2}x - 5$

7. $\frac{x-2}{4} - \frac{x+5}{6} = \frac{5x-2}{9}$

8. $\frac{2}{3}(15 - 6a) = \frac{5}{6}(12a + 18)$

9. $5.3y + 0.35 = 5.02y$

10. $2[3(x + 4) - 2(x + 1)] = 5x + 3(1 - x)$

11. $\frac{4[(x-3)+2(1-x)]}{5} = x + 1$

12. $\frac{2}{3}x > 4$ or $2x < -8$

13. $5 < 4x - 3 < 21$

14. $-2 < 3x + 7 < 1$

15. $5x + 12 \geq 2$ or $7x - 1 \leq 13$

16. $5 - 4x > 21$ or $7x - 2 > 19$

17. $9 - x \geq 7$ and $9 - 2x < 3$

18. $-2 \leq \frac{2}{3}x - 1 \leq 3$

19. *Coin Question*

A coin collection contains nickels, dimes, and quarters. There are twice times as many dimes as quarters and seven more nickels than dimes. The total value of all the coins is \$3.10. How many quarters are in the collection?

20. *Integer Question*

The sum of three integers is one hundred twenty-three. The second number is two more than twice the first number. The third number is five less than the product of three and the first number. Find the three numbers.