

CA Algebra 1 Standard 4.0

MULTIPLE CHOICE

- Which equation is equivalent to $3 - 2(x + 7) = 12$?
 - $3 - 2x - 14 = 12$
 - $3 - 2x + 7 = 12$
 - $-2x - 14 = 15$
 - $x - 14 = 12$
- Which equation is equivalent to $5x - 2x + 3 = 17x + 9$?
 - $3 = 20x + 9$
 - $7x + 3 = 17x + 9$
 - $3 = 14x + 9$
 - $12 = 17x$
- Which equation is equivalent to $\frac{2}{3}(3x + 9) = 21$?
 - $2x + 9 = 21$
 - $6x + 18 = 21$
 - $3x + 6 = 21$
 - $2x + 6 = 21$
- Which inequality is equivalent to $-6x + 3 < -2x + 11$?
 - $-4x > 8$
 - $-8x < 14$
 - $-4x < 8$
 - $4x < 8$
- Which inequality is equivalent to $4x - 3(x - 2) \geq 24$?
 - $4x - 3x - 2 \geq 24$
 - $4x - 3x + 6 \geq 24$
 - $x - 2 \geq 24$
 - $7x - 6 \geq 24$
- Which equation is equivalent to $-2(6 - 10x) = 10(-2x + 6)$?
 - $20x = -20x + 72$
 - $12 - 20x = -20x + 60$
 - $-12 - 20x = 8x + 60$
 - $-12 - 10x = -20x + 6$
- Which equation is equivalent to $2x + 4(x - 3) = 5(x + 3) - 18$?
 - $6x - 4 = 5x + 3 - 18$
 - $2x + 4x - 12 = 5x + 15 - 18$
 - $2x + 4x - 3 = 5x + 3 - 18$
 - $2x + x - 3 = 5x + 3 - 18$
- Which inequality is equivalent to $4(2x - 3) + 7x \leq 2(4x + 8) + 12$?
 - $8x - 3 + 7x \leq 8x + 8 + 12$
 - $8x + 12 + 7x \leq 8x + 16 + 12$
 - $6x - 12 + 7x \leq 8x + 8 + 12$
 - $8x - 12 + 7x \leq 8x + 16 + 12$

9. Which inequality is equivalent to $-5x - 3(2x + 4) > 10x + 2(x + 7)$?

A. $-5x - 6x - 12 > 10x + 2x + 14$

C. $-5x - 5x - 12 > 10x + 2x + 14$

B. $-5x - 6x + 4 > 10x + 2x + 7$

D. $-2x(2x + 4) > 12x + 14$

10. Which inequality is equivalent to $\frac{1}{2}(4x - 8) < 5x - 2(x + 2)$?

A. $2x - 8 < 5x - 2x - 4$

C. $2x - 4 < 5x - 2x - 4$

B. $8x - 16 < 5x - 2x - 4$

D. $2x - 6 < 5x - 2x + 2$