

Can You Use Algebra Tiles? (Key)

Solve each problem using algebra tiles, making sure to draw and explain your steps and always maintain equality.

1. $2x + 4 = 10$ $x = 3$
 $2x + 4 - 4$ $10 - 4$

6. $3x + 1 = 10$ $x = 3$
 $3x + 1 - 1$ $10 - 1$

2. $3x - 2 = 4$ $x = 2$
 $3x - 2 + 2$ $4 + 2$

7. $3x - 4 = 5$ $x = 3$
 $3x - 4 + 4$ $5 + 4$

3. $2x + 3 = 7$ $x = 2$
 $2x + 3 - 3$ $7 - 3$

8. $5x - 2 = 8$ $x = 2$
 $5x - 2 + 2$ $8 + 2$

4. $4x - 1 = 3$ $x = 1$
 $4x - 1 + 1$ $3 + 1$

9. $4x + 3 = 19$ $x = 4$
 $4x + 3 - 3$ $19 - 3$

5. $2x - 3 = 5$ $x = 4$
 $2x - 3 + 3$ $5 + 3$