

Check:

$$x ! 1 = 2x + x + (! 1) = 2x + x + (! 1) = 2x ! 2x + x + (! 1) = x + 1 + (! 1) = x + 1 + (! 1) = x + 1 + x = -x = -x = 1$$
:

Remove like terms to isolate ; Equality Property of Subtraction. Solution.

Arrange like terms together; Commutative Property of Addition.
Find and remove any zeros; Additive Inverse.
Goal is to find the value of one
Goal is to find the value of one



x + .5 = 3!Rewrite as fraction. х Build it. Use Additive Inverse. Use the Equality Property of Subtraction. Decompose. Remove any zeros. Solution.

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Check:
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$$\frac{1}{2}$$
 3

$$\frac{1}{2}$$
 3 $\frac{1}{2}$ $\frac{1}{2}$

$$3 \frac{1}{2}$$

$$2 \quad \frac{1}{2} \quad \frac{1}{2} ! \frac{1}{2}$$

$$2 \quad \frac{1}{2}$$

$$2\frac{1}{2}$$

We've reviewed enough to begin 'the game'. There is a variety of ways to use the game for solving equations practice.

Objective: Playing for points. Solve the equation correctly using algebra tiles, earn a point. Person with the most point wins.

Cut Algebra Tiles, Grouping Symbols and Fraction Bars out of construction paper; draw Equal Signs on cardstock, copy Equations on cardstock, copy answer sheet on printer paper, copy Forms of 1 on Transparency.

Suggestion: Students should work in small groups (4

1. ! = +	2. $5x + 4 = 4x + 5!$
3. $x+3=2x-7$	4. 2 -1 -3!
5. + = -	6. $x + = x - !$
7. $-\frac{x}{-}$ $\frac{x}{-}$!	8. + = +, !

15. $9x = 4x$ 25	16. 3 7 = 5 +1! !
$17. \ \frac{x+4}{5} = \frac{x-6}{7}!$	$18. \frac{x-}{} = x +$
19. $x + -x = !$	20. 14 – 2 + 4 = 20
$21. \frac{x}{-} + ! \frac{x}{-} = -!$	$22. \ 26 = 3x - 2 - 7x$

1. <i>x</i> = 7	2. $x = !$
3. $x = 10$	4. =-!
5. = 4	6. $x = ! !$

7. x = 30

