

Name: _____ Date: _____ Class: _____

Solve each equation. If the equation has one solution, put a star beside it. If the equation has infinite solutions, put a smiley face beside it. If it has no solution, put an x beside it. You may choose to show your work on the back of this paper or on a separate sheet of paper. Record only answers here.

$13 - (2x + 2) = 2(x + 2) + 3x$	$11 + 3x - 7 = 6x + 5 - 3x$
$6x + 5 - 2x = 4 + 4x + 1$	$6x - 8 = 2(2x + 1)$
$3x + 7 = 5x + 2(3 - x) + 1$	$2x - 7 + 3x = 4x + 2$
$3(x - 1) + x = 4(x + 2)$	$5(2x - 1) + x + 17 = 5x + 6(x + 2)$
What is the solution for $72x + 7 = 223$?	Which best describes the solution for $\frac{f}{2} - 6 = 4$
<ul style="list-style-type: none"> a. $X = 6$ b. $X = 4$ c. $X = 3$ d. $X = 2$ 	<ul style="list-style-type: none"> a. $f = 20$ b. $f = 5$ c. no solution d. infinitely many solutions
What value of u makes the equation true? $u - 9 = -7u + 7$	What value of x makes this equation true? $\frac{3}{4}x + 9 = 3$
<ul style="list-style-type: none"> a. $u = 2$ b. $u = 2\frac{2}{3}$ c. $u = 16$ d. $u = 32$ 	<ul style="list-style-type: none"> a. $x = -8$ b. $x = -\frac{1}{2}$ c. $x = 1$ d. $x = 16$
What value of y makes this equation true? $6y - 8 = 2(2y + 1)$	Which best describes the solution for the equation below? $0.5(2x + 8) = x - 4$
<ul style="list-style-type: none"> a. $y = -3$ b. $y = 1$ c. $y = 2$ d. $y = 5$ 	<ul style="list-style-type: none"> a. $x = -4$ b. $x = 0$ c. no solution d. infinitely many solutions

Name _____

Solve the following equations, and indicate if it is one solution, infinite solutions, or no solution.

1. $\frac{3}{8}x = 81$

2. $\frac{a}{3} = 12$

3. $\frac{2}{10}c = 20$

4. $\frac{m}{4} = 50$

5. $11a + 4 = -3a - 24$

6. $\frac{1}{3}(a - 6) = 28$

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

8. $6x - 10 = 3x + 5 + 3(x - 5)$

9. $2(2d + 3) = 6(d + 12)$

10. $4x + 6 + 3x = 5x + 7 + 2x$