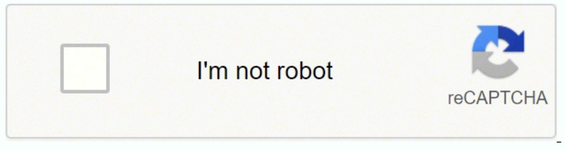

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Multi step inequalities worksheet fractions worksheet answers printable

Equations WS3 Name:_____

Solving Equations
1,2, Multi-Step and Inequalities Date:_____Period: _____

Solve for the variable.

1. $\frac{x}{3} = 9$
2. $x - 12 = -10$
3. $x + 50 \leq -60$
4. $42 > x - 25$
5. $-37 = x + 9.3$
6. $y - (-10) = 49$
7. $2x = -16$
8. $-4y > 88$
9. $\frac{m}{15} = 2$
10. $-4x + 7.2 = 32$
11. $7x - 3 = -9$
12. $8.4 - 2x < 16$
13. $7.3 - x = 25.8$
14. $-3x + 18 = -27$
15. $13x - 6.9 = 31$
16. $-4x + 8 = 40$
17. $\frac{x}{3} - 2 = 8$
18. $\frac{x}{5} + 9 \leq 10$

Name : _____ Score : _____

Identifying Solutions

Choose the correct solution that best describes each inequality.

1) $\frac{8x}{3} - 2x > 12$

a) $(-\infty, -18)$ b) $(18, \infty)$
c) $(-\infty, 18]$ d) $[18, \infty)$

2) $\frac{7x+1}{2} \geq 4$

a) $(1, \infty)$ b) $(-\infty, 1)$
c) $[1, \infty)$ d) $(-\infty, 1]$

3) $4(2 + 5x) < 48$

a) $(-\infty, 2)$ b) $(2, \infty)$
c) $(-\infty, 2]$ d) $[2, \infty)$

4) $3x + \frac{5x}{4} \leq 34$

a) $(-\infty, -8)$ b) $(-\infty, 8)$
c) $(-\infty, 8]$ d) $[8, \infty)$

5) $\frac{3x+5}{2} \geq 7$

a) $(-\infty, -3)$ b) $(3, \infty)$
c) $(-\infty, 3]$ d) $[3, \infty)$

6) $9(3x - 13) < 45$

a) $(-\infty, -6)$ b) $(-\infty, 6)$
c) $(-\infty, 6]$ d) $[6, \infty)$

7) $\frac{3x}{2} + 5x \leq 26$

a) $(-\infty, -4)$ b) $(4, \infty)$
c) $(-\infty, 4]$ d) $[4, \infty)$

8) $\frac{4x-8}{6} > 2$

a) $(-\infty, -5)$ b) $[5, \infty)$
c) $(-\infty, 5]$ d) $(5, \infty)$

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Name : _____ Score : _____

Identifying Solutions

Choose the correct solution that best describes each inequality.

1) $5x - 2 \geq 3$

a) $(-\infty, -1)$ b) $(-1, \infty)$
c) $(-\infty, 1]$ d) $[1, \infty)$

2) $6x + 2 < 14$

a) $(-2, \infty)$ b) $(-\infty, 2)$
c) $(-\infty, 2]$ d) $[2, \infty)$

3) $\frac{x-1}{4} \leq 3$

a) $(-\infty, 13]$ b) $(-13, \infty)$
c) $[13, \infty)$ d) $(-\infty, 13)$

4) $\frac{x}{2} + 4 < 6$

a) $(4, \infty)$ b) $(-\infty, 4]$
c) $(-\infty, 4)$ d) $[4, \infty)$

5) $19 + 2x > 5$

a) $(-\infty, 7)$ b) $(7, \infty)$
c) $[-7, \infty)$ d) $(-7, \infty)$

6) $7 + 3x \leq 10$

a) $(-\infty, 1)$ b) $(-\infty, 1]$
c) $(1, \infty)$ d) $[1, \infty)$

7) $5x - 17 \geq 3$

a) $(-\infty, 4)$ b) $(-\infty, 4]$
c) $[4, \infty)$ d) $[-4, \infty)$

8) $4x + 9 > 1$

a) $(-\infty, 2)$ b) $(-\infty, -2)$
c) $(-\infty, -2]$ d) $(-2, \infty)$

9) $\frac{x}{7} + 1 > 5$

a) $(28, \infty)$ b) $(-\infty, 28]$
c) $[28, \infty)$ d) $(-28, \infty)$

10) $\frac{x+9}{3} \geq 6$

a) $(-\infty, 9)$ b) $[9, \infty)$
c) $(9, \infty)$ d) $[-9, \infty)$

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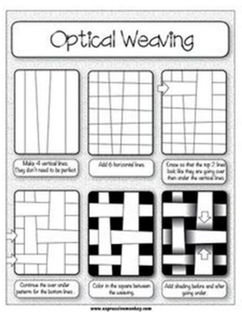

Multi-Step Equations

Eighth Grade - Pre-Algebra - Multi-Step Equations - WKS-05

Name _____
Date ___/___/_____
Period _____ Score _____

Solve for the variable.

1. $a + 6 = 21$ _____
2. $b - 17 = 43$ _____
3. $c \cdot 5 = 65$ _____
4. $d \div 8 = 16$ _____
5. $14 - e = 48$ _____
6. $23 + f = 78$ _____
7. $8 \cdot g = 40$ _____
8. $72 \div h = 24$ _____
9. $4j + 9 = 41$ _____
10. $8k - 12 = 60$ _____
11. $15m + 21 = 96$ _____
12. $8n - 14 = 66$ _____
13. $\frac{p}{4} + 6 = 90$ _____
14. $\frac{q}{9} - 11 = 88$ _____
15. $\frac{r}{15} + 1 = 106$ _____
16. $\frac{s}{20} - 7 = 3$ _____
17. $\frac{4t}{5} + 3 = 11$ _____
18. $\frac{9u}{2} - 7 = 20$ _____
19. $\frac{15v}{8} + 7 = 37$ _____
20. $\frac{7w}{6} - 12 = 156$ _____
21. $\frac{3x+9}{3} + 6 = 13$ _____
22. $\frac{5y-7}{4} - 8 = 4$ _____
23. $\frac{2z+15}{3} + 9 = 20$ _____
24. $\frac{8a-9}{3} - 10 = 3$ _____
25. $2b + 8 = 4b - 12$ _____
26. $15c + 9 = 10 - 14c$ _____
27. $12d - 7 = 9d - 1$ _____
28. $22 - 6e = 8e - 6$ _____
29. $4(3f - 5) = 64$ _____
30. $12(9g + 3) = 1008$ _____
31. $7(2h - 4) + 3h = 108$ _____
32. $15(6j + 1) - 6j = 183$ _____

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