Name: _____

Date: _____ Score: _____

MATH MONKS

Solving Multi-Step Equations - Integers

Solve the given equations.

1. $\frac{6x - 2}{8x + 2} = \frac{2}{4}$

2. $\frac{x}{3} + \frac{x}{2} = 5$

3. $6(2x + 2) = 3(4x + 1) - 2(2x + 2)$

4. $4(5x + 3) + 3(-4x - 4) = -48$

5. $36 = 2(r + 6) + 4(r + 4)$

6. $0 = 10(n - 4) - 6(n - 4)$

7. $-7(m - 1) + 3(2m - 1) = 8$

8. $7x + 3(-4x - 5) = -65$

9. $6x - 2(x - 5) = 46$

10. $-14 + 6b + 7 - 2b = 1 + 5b$

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MATH MONKS

Solving Multi-Step Equations - Integers

Answers

1. $\frac{6x - 2}{8x + 2} = \frac{2}{4}$

$x = -1\frac{1}{2}$

2. $\frac{x}{3} + \frac{x}{2} = 5$

$x = 6$

3. $6(2x + 2) = 3(4x + 1) - 2(2x + 2)$

$x = -3\frac{1}{4}$

4. $4(5x + 3) + 3(-4x - 4) = -48$

$x = -2\frac{2}{5}$

5. $36 = 2(r + 6) + 4(r + 4)$

$r = 1\frac{1}{3}$

6. $0 = 10(n - 4) - 6(n - 4)$

$n = 4$

7. $-7(m - 1) + 3(2m - 1) = 8$

$m = -4$

8. $7x + 3(-4x - 5) = -65$

$x = 10$

9. $6x - 2(x - 5) = 46$

$x = 9$

10. $-14 + 6b + 7 - 2b = 1 + 5b$

$b = -8$