Name: Date: Period:

1. In the equation $\frac{1}{4}n + 5 = 5\frac{1}{2}$, n is equal to:

[A] $\frac{1}{2}$ [B] 2 [C] 8 [D] $\frac{1}{8}$

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2. Solve for x: $\frac{1}{16}x + \frac{1}{4} = \frac{1}{2}$

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3. What is the value of x in the equation: $\frac{x}{2} + \frac{x}{6} = 2$

[A] $\frac{1}{4}$ [B] 3 [C] 12 [D] 8

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4. What is the solution set of the equation $\frac{x}{5} + \frac{x}{2} = 14$

[A] {49} [B] {20} [C] {10} [D] {4}

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5. Which value of x is the solution of the equation, $\frac{2x}{3} + \frac{x}{6} = 5$?

[A] 30 [B] 6 [C] 10 [D] 15

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6. What is the value of x in the equation: $\frac{3}{4}x + 2 = \frac{5}{4}x - 6$

[A] -4 [B] -16 [C] 4 [D] 16

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7. What is the value of w in the equation: $\frac{1}{2}w + 7 = 2w - 2$

[A] 6 [B] 3.6 [C] $3\frac{1}{3}$ [D] 2

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8. What is the value of w in the equation: $\frac{3}{4}w + 8 = \frac{1}{3}w - 7$

[A] -0.2 [B] 2.4 [C] -36 [D] -13.846

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9. Solve for x: $\frac{3}{5}(x + 2) = x - 4$

[A] 13 [B] 23 [C] 15 [D] 8

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10. What is the solution of $\frac{k+4}{2} = \frac{k+9}{3}$

[A] 6 [B] 5 [C] 1 [D] 14

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11. Which value of x is the solution of $\frac{2x}{5} + \frac{1}{3} = \frac{7x-2}{15}$

[A] 7 [B] 3 [C] $\frac{31}{26}$ [D] $\frac{3}{5}$

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12. The number of people on the school board is represented by x. Two subcommittees with an equal number of members are formed, one with $\frac{2}{3}x - 5$ members and the other with $\frac{x}{4}$ members. How many people are on the school board?

[A] 20 [B] 12 [C] 4 [D] 8