

NAME: _____

1. 080708a, P.I. A.A.25

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] $\frac{1}{8}$

2. 010636a, P.I. A.A.25

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

3. 010719a, P.I. A.A.25

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

4. 010507a, P.I. A.A.25

What is the solution set of the equation

$$\frac{x}{5} + \frac{x}{2} = 14?$$

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

5. 060907ia, P.I. A.A.25

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

6. 010204a, P.I. A.A.25

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

7. 060704a, P.I. A.A.25

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

8. 080620a, P.I. A.A.25

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

9. 080909ia, P.I. A.A.25

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

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

10. 010906ia, P.I. A.A.26

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

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

11. 080820ia, P.I. A.A.25

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] $\frac{3}{5}$

12. 060418a, P.I. A.A.25

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

[1] B _____

[3] 4, and appropriate work is shown.

[2] Appropriate work is shown, but one computational error is made.

[1] Appropriate work is shown, but two or more computational errors are made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] 4, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[2] incorrect procedure. _____

[3] B _____

[4] B _____

[5] B _____

[6] D _____

[7] A _____

[8] C _____

[9] A _____

[10] A _____

[11] A _____

[12] B _____