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Carla volunteered to make pies for a bake sale. She bought two pounds of apples and six pounds of peaches and spent \$19. After baking the pies she decided they looked so good she would make more. She went back to the store and bought another pound of apples and five more pounds of peaches and spent \$15. Her purchases can be represented by the following system of equations where a represents the cost per pound of the apples and p represents the cost per pound of the peaches.

$$\begin{aligned} 2a + 6p &= 19 \\ a + 5p &= 15 \end{aligned}$$

Solve the system either algebraically or by graphing and explain why you chose that method. (Note: The solution will contain fractions.)

$$\begin{aligned} a &= -5p + 15 \\ 2(-5p + 15) + 6p &= 19 \\ -10p + 30 + 6p &= 19 \\ -4p + 30 &= 19 \\ -4p &= -11 \\ p &= \frac{11}{4} \end{aligned}$$

$$\begin{aligned} a + 5\left(\frac{11}{4}\right) &= 15 \\ a + \frac{55}{4} &= 15 \\ -55 & -55 \\ a &= -\frac{40}{4} \\ a &= -10 \end{aligned}$$

L7

Grade 4
Progression: Quilt

Solving Linear Equations (D)



Solve the equations and leave your answers as simplified fractions or as decimals.

Section A

- $\frac{2x+5}{3} = 11$
- $\frac{8-3x}{2} = 5$
- $\frac{5-9x}{6} = -2$
- $\frac{7x+6}{3} - 9 = -12$
- $8x + \frac{1-4x}{8} = 7$
- $\frac{5}{x} = -6$
- $\frac{11}{4x} + 9 = 3$
- $5 - \frac{3x}{4} = 8x$
- $2 + \frac{4x}{3} - 7 = 1$
- $4 - \frac{3x}{2} = 3x + 5$
- $6 - \frac{2}{x} = 10$
- $4 - \frac{2x}{9} + x = -1$

Section B

- $4(2x-3) = 8(2x+5)$
- $3(4x-5) = 5(2x-5)$
- $8(6x+2) = 5(x-2)$
- $2(3x-4) = 7(11-2x)$
- $7(5-x) = -4(x-11)$
- $-4(x-8) = -6(4+3x)$
- $7(4-3x) = 2(8x-9) + 6$
- $-6(3-4x) + 2x = 8(x+11)$
- $3(2x-6) = 3-4(3-x)$
- $9(2x-1) - 3x = 3(12+x)$
- $4x - (2x-8) = 5(1+2x)$
- $10 - 6(8x-2) = 9x - (3+4x)$

Section C

- $\frac{5x-2}{3} = \frac{4x+1}{2}$
- $\frac{7x-8}{5} = \frac{2x+5}{4}$
- $\frac{-8x-1}{2} = \frac{5-3x}{6}$
- $\frac{5(x+1)}{3} = \frac{3(1+x)}{2}$
- $\frac{3(2+5x)}{4} = \frac{2(6x-3)}{5}$
- $\frac{2(3x-5)}{3} = \frac{-4(x-2)}{7}$
- $\frac{1}{2}(2x-6) = \frac{1}{4}(8-12x)$
- $\frac{1}{2}(5x+7) = \frac{3}{4}(3x-1)$
- $\frac{5}{3x+1} = 12$
- $\frac{x+2}{x+3} = 4$
- $\frac{2x-9}{3x-2} = -3$
- $\frac{2}{3x+10} = \frac{1}{x-1}$
- $\frac{2}{7x+3} = \frac{9}{2x-5}$
- $\frac{8}{6x+12} = \frac{11}{7x-10}$

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Algebra . Level 7 . Equations . Solving Linear Equations (D)

25) $x^2 + 6x = 0$

26) $x^2 + 20 = -9x$

27) $x^2 + 2x = 3$

28) $x^2 = 23$

29) $x^2 - 6x = -9$

30) $x^2 - 49 = -14x$

31) $x^2 - 8x = -20$

32) $x^2 - 3x + 11 = 0$

33) $x^2 - 4x = 5$

34) $x^2 + 4 = -8x$

35) $x^2 - 3x = 4$

36) $x^2 = -x + 36$

37) $x^2 - 3x = 49$

38) $x^2 + 6x = 7$

39) $x^2 - 12 = 4x$

40) $x^2 + 28 = 11x$

41) $x^2 + 49 = 14x$

42) $x^2 = -56 + 15x$

43) $x^2 = 48 = 2x$

44) $x^2 + 62 = -13x$

45) $x^2 - 2x = 33$

46) $x^2 - 3x = 28$

47) $x^2 - 14 = 5x$

48) $x^2 - 15x = 5x$

49) $x^2 + 64 = 16x$

50) $x^2 = 18x - 2x$

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