

Unit 2 HW 10

Name

Key No Work

Date

Period

1. Simplify. $-9(7)^2 + 9(7) + 320$

$$-58$$

2. Solve.

$$\frac{12}{x+8} = \frac{8}{3x-4}$$

$$x=4$$

3. Write an equation of a line in slope intercept form.

a. $m = \frac{-3}{2}$ (8, -12)

$$y = -\frac{3}{2}x - 12$$

b. (10, -6)(-5, -15)

$$y = \frac{3}{5}x - 12$$

4. There's a sale at the local candy shop. If you buy a Pez dispenser, you get a great discount on the Pez candy. Rick took advantage of the deal and bought 18 packs of candy with the dispenser for \$4.55. Shawn did the same, and bought 27 packs with the dispenser for \$5.90.

a. How much was the Pez dispenser? \$1.85

b. How much was each pack of candy? \$0.15

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Write a system of equations to solve the problem.

5. The math club and the science club had fundraisers to buy supplies for a hospice. The math club spent \$135 buying six cases of juice and one case of bottled water. The science club spent \$110 buying four cases of juice and two cases of bottled water. What is the cost of each case of juice and water?

Juice \$20
Water \$15

Solve the systems of equations using any method.

6. $x - 2y = 8$
 $5x + 3y = 1$ $(2, -3)$

7. $6x + 2y = 14$
 $y = -3x + 7$

infinite solutions

