Name: _____ Date: _____ Period: _____

3.1–3.4 REVIEW

Instructions: Do *both* Part A AND Part B. Show all steps on lined paper. No work = No credit.

Part A

Solve the equation, if posssible.

1. $-7 = -2 + x$
2. $b - \frac{2}{5} = \frac{3}{5}$
3. $-\frac{2}{3}d = 8$
4. $17 = 14 + 6y$
5. $2t - 5t = 9$
6. $13 - 9w = -14$
7. $7m - 4 - 2m = 6$
8. $\frac{3}{4}(c + 4) = 3$
9. $5(3 - 2y) + 4y = 3$
10. $4x - 1 = 2(2x + 3)$
11. $7a - 3.9a = 6.2$
12. $9 - 5z = 12 - (6z + 7)$
13. A new plasma-screen television costs $5250. A family makes a down payment of $552 and pays off the balance in 24 equal monthly payments. Write and solve an equation to find the monthly payment.
14. On a class trip, there were 45 more girls than boys. The total number of students on the trip was 211. Write and solve an equation to find the number of girls and the number of boys on the class trip.

Part B

Solve the equation.

1. $-112 = 7n$
2. $\frac{2}{3}t = 18$
3. $\frac{f}{-3} = -30$
4. $-28 = 10w - 3w$
5. $\frac{d}{5} + 1 = 7$
6. $\frac{9}{4}y - 2 = 25$
7. $24 = 13z - 4z + 6$
8. $7(h + 3) + 4 = -3$
9. $\frac{2}{3}(4x - 7) = -2$
10. A contractor purchases ceramic tile to remodel a kitchen floor. Each tile costs $4, and the adhesive and grouting material costs $17.82. If the contractor is charged a total of $545.82, how many ceramic tiles did the contractor purchase?

Answer Key

Part A

1. $x = -5$ **2.** $b = 1$ **3.** $d = -12$ **4.** $y = \frac{1}{2}$ **5.** $t = -3$ **6.** $w = 3$ **7.** $m = 2$ **8.** $c = 0$

9. $y = 2$ **10.** no solution **11.** $a = 2$ **12.** $z = -4$ **13.** $24x + 552 = 5250$; \$195.75

14. $x + x + 45 = 211$; 128 girls; 83 boys

Part B

1. $n = -16$ **2.** $t = 27$ **3.** $f = 90$ **4.** $w = -4$

5. $d = 30$ **6.** $y = 12$ **7.** $z = 2$ **8.** $h = -4$

9. $x = 1$ **10.** 132 tiles