

Ch 3.2 Review Worksheet

Solve each equation. Check your answer.

1. $2n + 3n + 7 = -41$

2. $5(3x + 12) = -15$

3. $5(b + 4) - 6b = -24$

4. $3h - 5h + 11 = 17$

5. $-4x + 3(2x - 5) = 31$

6. $\frac{2}{3}g + \frac{1}{2}g = 14$

7. $3c - 8c + 7 = -18$

8. $\frac{2x-6}{4} = -7$

9. $18 = \frac{c+5}{2}$

Solve for y.

10. $5(2a + y) = 3b$

Write an equation to model each situation. Then solve.

11. The attendance at a baseball game was 400 people. Student tickets cost \$2 and adult tickets cost \$3. Total ticket sales were \$1050. How many tickets of each type were sold?
12. The perimeter of a pool table is 30 ft. The table is twice as long as it is wide. What is the length of the pool table?
13. Lopez spent $\frac{1}{3}$ of his vacation money for travel and $\frac{2}{5}$ of his vacation money for lodging. He spent \$1100 for travel and lodging. What is the total amount of money he spent on his vacation?
14. Victoria weighs $\frac{5}{7}$ as much as Mario. Victoria weighs 125 lb. How much does Mario weigh?
15. Denise's cell phone plan is \$29.95 per month plus \$.10 per minute for each minute over 300 minutes of call time. Denise's cell phone bill is \$99.95. For how many minutes was she billed?
16. John and two friends rent a canoe at a park. Each person must rent a life jacket. If the bill for the rental of the canoe and life jackets is \$41, for how many hours did they rent the canoe?
17. **Moving Costs** The MacNeills rented a moving truck for \$49.95 plus \$.30 per mile. Before returning the truck, they filled the tank with gasoline, which cost \$18.32. The total cost was \$95.87. Find the number of miles the truck was driven.
18. **Cell Phones** Jane's cell phone plan is \$40 per month plus \$.15 per minute for each minute over 200 minutes of call time. If Jane's cell phone bill is \$58.00, for how many extra calling minutes was she billed?

