

WP and Variables on Both Sides Equations SG

Solve each equation. Show all work.

1) $m - 6 = 12 + 4m$

2) $p + 3 = -9 + 4p$

3) $11 + p = 1 + 3p$

4) $p - 2 = 3p - p + 3$

5) $4 + 2n = 6n - 5n - 2$

6) $1 + 3p = 1 - 2p$

7) $-3(6x - 1) = 29 - 5x$

8) $-2(1 - 6p) = -23 + 5p$

9) $-17 - p = 6(p - 4)$

10) $27 - 3n = -6(n - 2)$

11) $18 + b = -3(b - 6)$

12) $6(x + 2) = 5x + 12$

- 13) Chip earns a base salary of \$500 per month as a salesman. In addition to the salary, he earns \$90 per product that he sells. If his goal is to earn \$5000 per month, how many products does he need to sell?
- 14) A pizza shop charges \$9 for a large cheese pizza. Additional toppings cost \$1.25 per topping. Heather paid \$15.25 for her large pizza. How many toppings did she order?
- 15) An online movie club offers a membership for \$5 per month. Members can rent movies for \$1.50 per rental. A member was billed \$15.50 one month. Write and solve an equation to find how many movies the member rented.
- 16) Shirley is going to have the exterior of her home painted. Tim's Painting charges \$250 plus \$14 per hour. Colorful Paints charges \$22 per hour. How many hours would the job need to take for Tim's Painting to be the better deal?
- 17) Suzanne is going to rent a car while she is out of town. One car rental company offers a flat rate of \$35 per day plus \$0.10 per mile. Another car rental company offers the same car for \$25 per day plus \$0.25 per mile. She will need the car for 5 days. How many miles would she need to drive for the first rental company to be the better deal?
- 18) Jeremy is looking at two different lawncare companies to weed and mulch his flower beds. Greenscape Lawncare offers to charge \$100 for the mulch plus \$12 per hr for the labor. D & J Landscape offers to charge \$23 per hr for the job including the mulch. What is the minimum number of hours the job could be for D & J Landscape to have the better deal?