Supplemental Instruction Handouts

Business Math

Chapter 2:
Review and Application of Algebra

1. \((3d - 4e) + (-2d + 6e)\)
2. \((3ab) + (-6ab) - (-5ab)\)
3. \(4(5a + 2b) - (3a - 4b)\)
4. \(3[2 - 5x (2 + 6y)]\)
5. \(\frac{4x + 12}{5} - 3.2 (2x - 2)\)
6. \((3c - 8d)(2c + 4d)\)
7. \(4c + 3d - 8\) for \(c = 3\) and \(d = 2\)
8. \(S \div (1 + rt)\) for \(S = $1,250, r = 0.08\) and \(t = \frac{3}{12}\)
9. \(4g^3 \times 9g^4\)
10. \(8h^9 \div 2h^3\)
11. \((r^6)^3\)
12. \(8^3\)
13. \(4^{2/3}\)
14. \(5x + 4 = 22 + 2x\)
15. \(15x = 3x + 120\)
16. What sum of money when increased by 9% equals $45.68?
17. $88 is 12% less than what amount?
18. How much is $250 after a decrease of 2.5%?
19. Manny’s Tools sold 2,650 ladders at an average price of $35 in the first year of operations. In the second year Manny’s Tools sold 2,150 ladders for an average price of $39.

a) What was the percent change in ladders sold?
b) What was the percent change in price?
c) What was the percent change in revenue?

20. During the last four years the price of milk has increased by 35%. If the price is now $1.25 per liter, what is the dollar amount of the price increase per liter?