Order of Operations

Evaluate each expression.

1. $6 \times 3 \div 2$ _____

2. $4 + 3 \times 7$ _____

3. $12 \div 4 + 2$ _____

4. $36 \div (6 + 3)$ _____

5. $8 \times 10 \div 5$ _____

6. $50 \div 10 + 15$ _____

7. $13 - 2 - 4$ _____

8. $25 - (12 - 10)$ _____

9. $(3 + 7^2) \div 4$ _____

10. $(9 - 4)^2$ _____

11. 6×2^3 _____

12. $(38 \div 19)^5$ _____

13. $8^2 - 5^2$ _____

14. $(21 - 15)^2 - 20$ _____

15. $600 \div 2 \div 3 \div 5$ _____

16. $125 \div (25 \div 5)$ _____

17. $6 \times 5 - 2^2$ _____

18. $128 \div 16 - 8 \div 2$ _____

19. $80,000 - 6 \times 5,000$ _____

20. $9000 + 7 \times 300$ _____

21. $21 + 39,000 \div 1,300$ _____

22. $700 - 300 \div 10$ _____

23. $20 \times 7 \div 5 + 11$ _____

24. $69,000 \div (1700 + 600)$ _____

Insert a pair of parentheses to make each statement true.

25. $3 \times 7 + 4 \times 8 = 264$

26. $18 \div 3 + 3 = 3$

27. $8 + 16 \div 4 = 6$

28. $500 \div 50 \div 2 \div 5 = 4$

29. $3 \times 2^2 - 1 = 35$

30. $48 \div 12 \times 2 = 2$

31. A store has 27 six-packs, 15 twelve-packs, and 34 single cans of soda. Write an expression using the numbers 27, 6, 15, 12, and 34 to show how many cans the store has all together. Do not use parentheses unless they are necessary. Then evaluate your expression to find the number of cans.

_____

32. Find an arithmetic expression equal to 25 that contains the following operations.

a. addition and multiplication _____

b. subtraction and division _____

c. addition and at least one exponent _____

d. division and an exponent _____