Quiz 1-2: Order of Operations

Multiple Choice. Show all work for full credit.
Identify the letter of the choice that best completes the statement or answers the question.

1. Evaluate: $(68 + 3 \cdot 68 \div 3 - 32) \div 13$
   - a. 8
   - b. 2176
   - c. 11
   - d. 884

2. $\dfrac{81 \cdot 4 - 7 \cdot 4}{4 + 4}$
   Evaluate:
   - a. 40
   - b. 37
   - c. 34
   - d. 36

3. Write $(2)(2)(2)(2)(2)(2)$ using exponents.
   - a. $(6)^2$
   - b. $(2)^4$
   - c. $(2)^{-6}$
   - d. $(2)^6$

4. Write 3^2 as a multiplication expression.
   - a. $3 \cdot 2$
   - b. $2 \cdot 2$
   - c. 33
   - d. $3 \cdot 3$

5. Evaluate $2^3 \cdot 3^4$.
   - a. 432
   - b. 81
   - c. 648
   - d. 8

6. Evaluate the expression $9 + 5 \cdot 4 + 7$
   - a. 25
   - b. 71
   - c. 36
   - d. 154

7. Evaluate the expression $6(7 + 4) - 7 \cdot 7$
   - a. −228
   - b. 17
   - c. 413
   - d. −3

8. Evaluate the expression $3(3^4 + 2^3)$
   - a. 267
   - b. 54
   - c. 261
   - d. 60

9. Evaluate the expression $3xz - y^3$ if x = 4, y = 2, and z = 5
   - a. 54
   - b. 12
   - c. −101
   - d. 52

10. Evaluate the expression $6x + y^2 - z^2$ if x = 5, y = 4, and z = 3
    - a. 29
    - b. 37
    - c. 217
    - d. 32

11. Evaluate $10(4 + 3 \cdot 2) \div (2 \cdot 6 - 7)$
   a. 4
   b. 20
   c. 28
   d. 100

12. Evaluate $4am - a^2$ when $a = \dfrac{1}{2}$ and $m = 5$
   a. $\dfrac{1}{4}$ 10
   b. $\dfrac{1}{4}$ 22
   c. $\dfrac{3}{4}$ 9
   d. 9

13. Evaluate $4v^2 - n(s - v)$ when $n = 3$, $s = 5$, and $v = 2$.
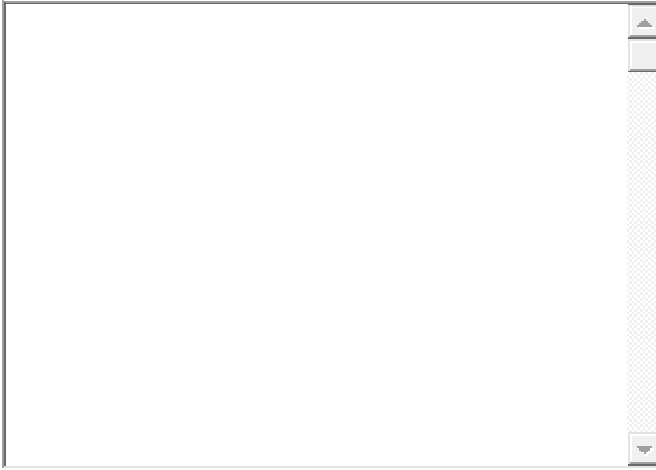   a. 55
   b. 39
   c. 183
   d. 7

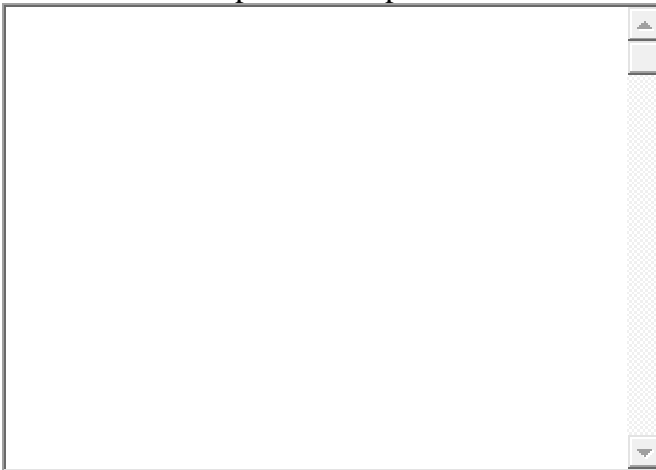## Short Answer

14. Evaluate: $12 - 8 \cdot 3 \div 4 + 5$

15. Evaluate: $25 - \dfrac{6(8 + 10)}{9}$

16. Write (6)(6)(6)(6)(6) using exponents.

17. Write 3^2 as a multiplication expression.

18. Evaluate $3^2 \cdot 2^3$