



ORDER OF OPERATIONS

Name _____

Score _____

OF:22

Example: $\{[5 + (9^2 \div 27)] + 18\} - 8$
 $= \{[5 + (81 \div 27)] + 18\} - 8$
 $= \{[5 + 3] + 18\} - 8$
 $= \{8 + 18\} - 8$
 $= 26 - 8$
 $= \mathbf{18}$

Solve each expression.

1) $3^3 + \{9 \times [6^2 - (16 - 11) \times 5]\}$

2) $7^3 \div 49 - \{6 + [2^3 \times 2 + (5^2 - 18)]\}$

3) $(5 \times 4^3 \div 2^4) - \{7 \times [17 - 13]\}$

4) $\{46 - 2 \times [15 - 14 + (8^2 - 7^2)]\} + 3$

5) $\{(3^2 \times 2) + [12 - (9^2 \div 3 - 20)]\} \times 4$

6) $71 - \{2^3 + [3 \times (8^2 \div 64)]\}$

7) $2^4 + \{14 - [16 + (39 \div 13)]\}$

8) $(2 + 3)^2 \times \{[(6 - 2) + 1] + 5\}$



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Answer key

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126

2) $7^3 \div 49 - \{6 + [2^3 \times 2 + (5^2 - 18)]\}$

-22

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17

5) $\{(3^2 \times 2) + [12 - (9^2 \div 3 - 20)]\} \times 4$

92

6) $71 - \{2^3 + [3 \times (8^2 \div 64)]\}$

60

7) $2^4 + \{14 - [16 + (39 \div 13)]\}$

11

8) $(2 + 3)^2 \times \{[(6 - 2) + 1] + 5\}$

250