Name

Reteaching 8-4

Evaluating Expressions

Brackets and parentheses are both used to show groupings. Brackets are used to avoid double parentheses: [(instead of ((.

Evaluate expressions according to the order of operations.	
 Evaluate inside parentheses, then evaluate inside brackets. 	$2.3^2 + [(9 \times 0.4) + (3 \times 0.8)] \times 1.2$ $2.3^2 + [3.6 + 2.4] \times 1.2$ $2.3^2 + 6 \times 1.2$
2. Evaluate terms with exponents.	2.3² + 6 × 1.2 5.29 + 6 × 1.2
 Multiply and divide from left to right. 	5.29 + 6 × 1.2 5.29 + 7.2
 Add and subtract from left to right. 	5.29 + 7.2 12.49

Evaluate each expression.

1. (4.8 ÷ 2) × 5	2. $3.6 + (3 \times 9.6 - 4.8)$
3. [(6.2 × 8.4) − 9.28]	4. [7 × (9.6 ÷ 3)] + 12.4
5. $6 \times [(6 \times 2.3) + 3.9]$	6. $2^4 \div [(3.35 \times 0.8) + 5.32]$
7. 9.6 + [(3.1 × 2) - 2.3] + 4^2	8. $6^2 - 9 \div [(0.24 \times 5) + (0.66 \times 5)]$

9. How would you use estimation to evaluate this expression: $10.2 \times [(2 \times 3.7) + 8]$?