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.

1.	Evaluate inside parentheses, then evaluate inside brackets.	$2.3^2 + $ **[(9 × 0.4) + (3 × 0.8)]** × 1.2 $2.3^2 + $ **[3.6 + 2.4]** × 1.2 $2.3^2 + 6 × 1.2$
2.	Evaluate exponents.	**2.3^2** + 6 × 1.2 5.29 + 6 × 1.2
3.	Multiply and divide from left to right.	5.29 + **6 × 1.2** 5.29 + 7.2
4.	Add and subtract from left to right.	**5.29 + 7.2** 12.49

Evaluate each expression.

1. $(7.8 ÷ 2) × 12$

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2. $5.6 + (3 × 9.6 − 4.8)$

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3. $[(4.2 × 3.4) − 9.28]$

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4. $[4 × (9.6 ÷ 3)] + 8.4$

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5. $5 × [(6 × 2.3) + 0.9]$

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6. $2^4 ÷ [(3.2 × 0.8) + 1.44]$

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7. $5.6 + [(3.1 × 4) − 7.3] + 5^2$

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8. $4^2 − 9 ÷ [(0.24 × 7) + (0.66 × 2)]$

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9. Reasoning Is it possible to have an expression that uses brackets without using any parentheses? Give your reasons.

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10. Estimation How could you estimate to get an approximate answer for this expression: $12.3 × [(2 × 1.7) + 6] − 2^3$?

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