

# S2C Reasoning Process: Step-by-Step Example

Problem: A store sells pencils for \$0.25 each and erasers for \$0.10 each. If Sarah buys 8 pencils and some erasers, and spends \$3.50 total, how many erasers did she buy?

## Stage 1: Generator

Critical Points:  
1. Cost of pencils:  $8 \times 0.25 = 2.00$   
2. Remaining money for erasers:  $\$3.50 - \$2.00 = \$1.50$   
3. Number of erasers:  $1.50 \div 0.10 = 15$  erasers  
  
Initial Answer: Sarah bought 15 erasers.



## Stage 2: Critic

Critique Report:  
✓ Pencil cost calculation is correct:  $8 \times 0.25 = 2.00$   
✓ Subtraction is correct:  $\$3.50 - \$2.00 = \$1.50$   
✓ Division setup is correct:  $1.50 \div 0.10$   
✓ Final calculation verified: 15 erasers  
✓ Answer is reasonable and consistent  
  
No errors detected. Solution appears correct.



## Stage 3: Synthesizer

Final Synthesis:  
The critic confirmed all calculations are correct. The solution follows a logical sequence:  
• Pencil cost:  $8 \times 0.25 = 2.00$   
• Money left for erasers:  $\$3.50 - \$2.00 = \$1.50$   
• Number of erasers:  $1.50 \div 0.10 = 15$   
  
#### 15