

Estimate Detective Answer Key

1. Addition: $1,500 + 2,600 = 4,100$ visitors
2. Subtraction: $5,200 - 2,800 = 2,400$ boxes
3. Multiplication: $50 \times 20 = 1,000$ seats
4. Division: $1,800 \div 30 = 60$ students
5. Addition: $3,200 + 1,900 = 5,100$ apples
6. Subtraction: $4,700 - 2,100 = 2,600$ meters
7. Multiplication: $60 \times 40 = 2,400$ seats
8. Division: $1,200 \div 40 = 30$ cookies

Teacher's Guide

- Quick implementation: Ask students to identify what the problem is asking before choosing an operation. Review rounding and compatible numbers as estimation strategies.
- Differentiation: Let students underline clues and circle the quantities before solving. For extra support, provide the four operation symbols as choices.
- Engagement: Have students earn one "detective point" for identifying the correct operation and another for producing a reasonable estimate.
- Extension: Ask students to solve each problem exactly and compare the exact answer with the estimate.