

Answer Key and Sources:

1. **239** (Guts Round Problem 5)
2. **044** (Algebra Round Problem 3)
3. **022** (Discrete Round Problem 4)
4. **739** (Guts Round Problem 11)
5. **157** (Discrete Round Problem 7, easier variation)
6. **140** (Discrete Round Problem 6)
7. **038** (Algebra Round Problem 6)
8. **091** (Geometry Round Problem 5)
9. **160** (Discrete Round Problem 8)
10. **128** (Algebra Round Problem 8)
11. **101** (Geometry Round Problem 8)
12. **199** (Guts Round Problem 22)
13. **011** (Algebra Round Problem 9)
14. **128** (Geometry Round Problem 9)
15. **616** (Discrete Round Problem 10)