Three-Digit Locks: Solve the Number Clues

Answers and adult support.

Lock A: 2, 3, 4

The first and last add to 6. Since all three add to 9, the middle is 3. It is one more than the first, so the first is 2 and the last is 4.

Lock B: 4, 3, 5

The first and last add to 9. Since all three add to 12, the middle is 3. It is two less than the last, so the last is 5 and the first is 4.

Check all the rules

Every digit is from 1 to 6 and no digit repeats within either lock. The same digit may appear in both locks. Enumerating all 120 possible distinct triples from digits 1 to 6 gives exactly one solution for each set of clues.