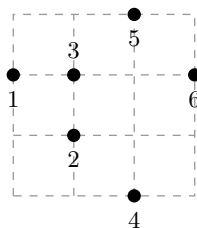# *12 Days of ChrisMATH — Day 11*

Sankaku

- **Type of puzzle:** A Sankaku puzzle is a geometric-based puzzle created by Naoki Inaba.

- **Name Origin:** Sankaku is the Japanese word for *triangle*.

- **Rule:** To connect three dots on a grid to form a triangle whose area is equal to the specific value given. In some puzzles, one may find more than 1 set of points.

- **Identify all triangles**:For each set of points found, list the dots labels in increasing order, without spaces.

- **How to submit your answer: Add together all the 3-digit numbers you obtain from the identified triangles and submit the sum.** If only one set of points is found, submit the 3-digit number.
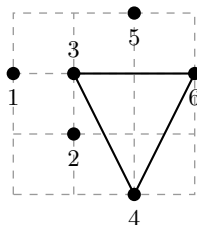
For example, the puzzle

Area=2
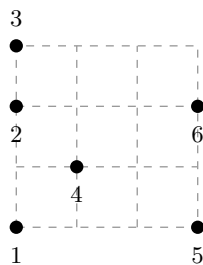

has the solution

Area=2

which means one set of points: 346.
Thus, the answer is **346**

Add together all the 3-digit numbers you obtain from the identified triangles and submit the sum.
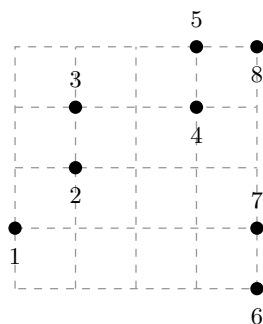
Level 1

Area=1

Level 2

Area=3

Level 3

Area=2