

## You Need

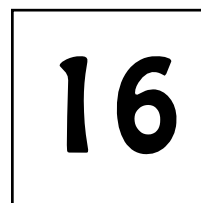
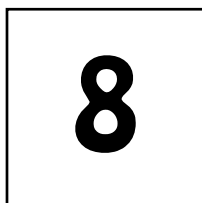
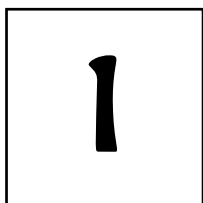
- Twenty [20] tiles numbered from 1 to 20

## Your Task

1. Arrange the tiles in a list from one [1] to sixteen [16].

Make eight [8] pairs so that each pair adds to a square number.

(Note: The sum of each pair does not have to be the same square number.)



This pair sums to 9 ( $3^2$ )

This pair sums to 25 ( $5^2$ )

2. Look inside the list from 1 to 16 for another list that starts at 1 and also makes square pairs.

3. Make the list from 1 to 20

Find two other lists inside this list that start at 1 and make square pairs.

## Challenge

Find as many lists as you can that start at 1 and make square pairs.

- There are only seven [7] lists ending in even numbers that *cannot* square pair. Find as many of these as you can.