

Start with the numbers from 0 - 20.

0 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20

Can you arrange these numbers into seven sets of three numbers, so that the totals of the sets are consecutive?

For example, one set might be {2, 7, 16}

$$2 + 7 + 16 = 25$$

And another might be {4, 5, 17}

$$4 + 5 + 17 = 26$$

As 25 and 26 are consecutive numbers these sets are the kind of thing that you need.

Once you've found a solution, here are some questions you might like to consider:

- Is there more than one possible set of seven consecutive totals? How do you know?
- Is there more than one way to make the seven totals?
- Could you make seven sets that all had the same total?
- Could you make seven sets whose totals went up in twos? Or threes? Or...