

What is the greatest product that can be made from numbers that add up to 100?

$$70 + 30 = 100$$

$$70 \times 30 = 2100$$

$$56 + 44 = 100$$

$$56 \times 44 = 2464$$

- In both these examples the first calculation is an addition that equals 100.
- In the second calculation the same digits have been multiplied together.

Your task:

Step 1: Choose numbers that add to make 100

Step 2: Multiply the same digits together to get the product

Step 3: Repeat 20 times, or more!

Step 4: Circle the calculation that gives you the greatest product (the answer when the digits are multiplied together)

See if you can spot a relationship between the investigation from yesterday and today.

Example:

$$\text{Step 1: } 20 + 20 + 60 = 100$$

$$\text{Step 2: } 20 \times 20 \times 60 = 24,000$$