

**Amira**

I am thinking of a number. It is higher than 20. It is less than 60. It is a prime number. The sum of its digits is an odd number.

Can you find all the possible numbers she could be thinking of?

Is Marc correct? Explain your reasoning.

There are three possibilities.

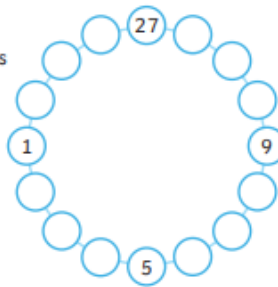


**Marc**

- 2) Can you arrange the numbers in the circles so that each adjoining pair adds to make a prime number?

2, 3, 4, 6, 7, 8, 10, 11, 12, 14, 15, 16

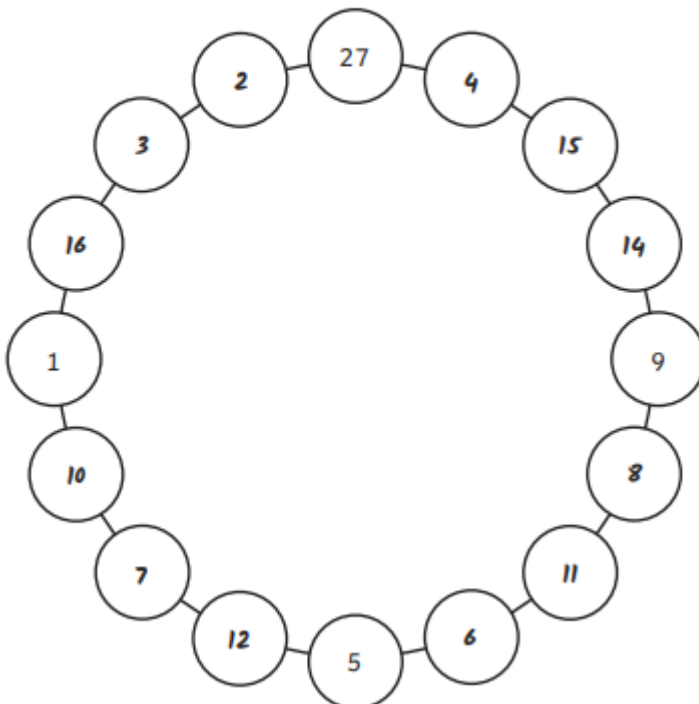
**Top Tip:** think about where the odd numbers will need to be placed.



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1) **Marc is incorrect. There are 5 numbers that fit all the criteria: 23, 29, 41, 43 and 47. They are all greater than 20, less than 60 and they are all prime. Their digit sums are all odd.**

2) **This is one possible solution:**



This is one **possible** solution—that means that there are others which still work, so don't worry if yours doesn't look exactly the same as this one!