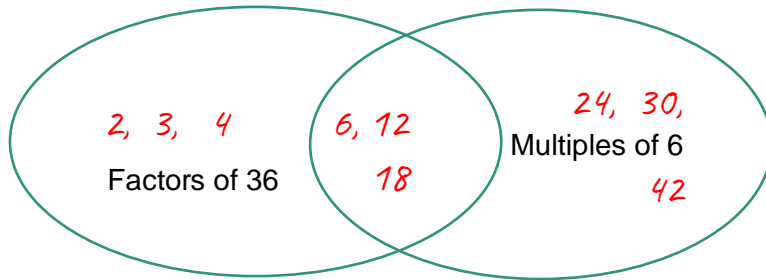


REHEARSE

Put three numbers into each section:

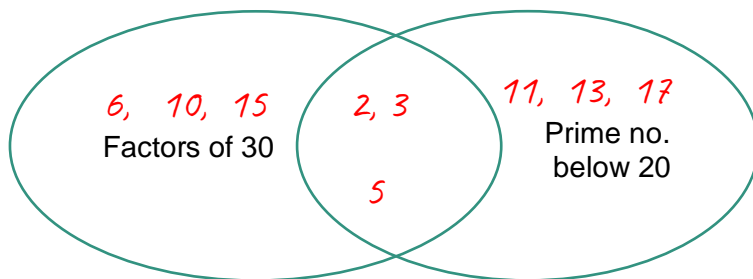


Factors of 36
1, 36 2, 18
3, 12 4, 9 6

Multiples of 6
6, 12, 18, 24, 30, 36,
42

First, I found the factors of 36 and multiples of 6 separately and wrote them in the boxes. Then I added them to the diagram, putting them in the middle if they appeared in both categories.

Put three numbers into each section:



Factors of 30
1, 30 2, 15
3, 10 5, 6

Prime number below 20
2, 3, 5, 7, 11, 13, 17,
19

Appropriate explanation similar to the one above.

APPLY AND EXPLORE

Convince me that, other than the number **two** itself, there are no other multiples of two that are prime numbers. Make sure to use the words **prime**, **factor** and **multiple** in your explanation.

Explanation along the lines of:

Multiples of 2 that are greater than 2 will always have factors of at least 1, 2 and themselves. E.g. 4 is a multiple of 2, it has factors of 1, 2 and 4. Prime numbers can only have factors of 1 and itself. Therefore, multiples of 2 greater than 2 cannot be prime numbers, because they will have too many factors to be prime.

APPLY AND EXPLORE

Find and list all the common factors of 24 and 60. Use this space to show how you found them.

Factors of 24 are: 1, 24 2, 12 3, 8 4, 6

Factors of 60 are: 1, 60 2, 30 3, 20 4, 15 5, 12 6, 10

Common factors of 24 and 60 are: 1, 2, 3, 4, 6 and 12