

A **Prime Number** has **exactly two factors** 1 and itself.

- **3** is a **prime** number. It has **exactly two factors** 1 and 3.
- **1** is **not** a **prime** number. It has **just one factor** 1.
- **4** is a **not** a **prime** number. It has three factors 1, 2 and 4.

Exercise:

1. List the first five prime numbers. **2, 3, 5, 7, 11**
2. List all the prime numbers between 10 and 30. **11, 13, 17, 19, 23, 29**
3. Which of these are prime numbers: 57, 58, 59, 61. **59, 61**
4. Which of these are prime numbers: 41, 43, 47, 49. **41, 43, 47**
5. Which of these are prime numbers: 73, 79, 81, 89. **73, 79, 89**
6. List all of the prime numbers between 30 and 60. **31, 37, 41, 43, 47, 53, 59**
7. Kathryn said that prime numbers are always odd. Is she correct? Explain your answer. **No, because 2 is a prime number and it is also an even number.**
8. John thinks of a prime number. He says it is a factor of 44. It is also odd. What is the number that John is thinking of? **11**
9. Natalia thinks of a prime number. Her number is also a factor of 42. What are the possible choices for Natalia's number? **Factors of 42 = 1, 2, 3, 6, 7, 14, 21, 42. Therefore Natalia's choices are 2, 3, 7 (as these are the factors of 42 that are also prime numbers)**
10. Place each of the numbers 1 to 10 in the correct position in this Venn Diagram:

