

# Number Patterns

## Amazing Fact

$$111,111,111 \times 111,111,111 = 12,345,678,987,654,321$$

Both of these numbers read the same backwards as they do forwards!

## Challenge

Work out the missing numbers in these patterns.

1. 19, 18, \_\_\_\_\_, 16, 15, \_\_\_\_\_, \_\_\_\_\_

2. 2, 4, \_\_\_\_\_, \_\_\_\_\_, 10, 12, \_\_\_\_\_

3. 10, \_\_\_\_\_, 30, \_\_\_\_\_, 50, \_\_\_\_\_, 70

4. \_\_\_\_\_, 29, 28, \_\_\_\_\_, 26, \_\_\_\_\_, 24

5. 88, 89, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 93

6. 15, \_\_\_\_\_, 25, 30, \_\_\_\_\_, \_\_\_\_\_



You could also try to find out:

- how many even numbers there are between 0 and 20;
- how many fives would add together to make 30;
- how many different ways you can make 20.

# Number Patterns **Answers**

1. 19, 18, **17**, 16, 15, **14**, **13**
2. 2, 4, **6**, **8**, 10, 12, **14**
3. 10, **20**, 30, **40**, 50, **60**, 70
4. **30**, 29, 28, **27**, 26, **25**, 24
5. 88, 89, **90**, **91**, **92**, 93
6. 15, **20**, 25, 30, **35**, **40**