

## Year 6 Investigations – Order of Operations

1. Make the numbers from 1 – 30 using the digits 1, 2, 3 and 4 and the symbols +, −, × and ÷. All four digits must be used in each equation.

Ideas for concrete resources to provide:

- Digit cards
- Scrap paper or whiteboards and pens for calculations
- Table to record findings for each number (tables to 20 and 30 are included)

Question prompts:

- What is the correct order of operations?
- What happens when you multiply or divide a number by 1?

Answers:

Answers for all numbers have been provided in this pack. Please note that the number 29 may require the use of indices (see example answers).

## Investigation 1

Make the numbers from 1 – 30 using the digits 1, 2, 3 and 4 and the symbols

+, −, × and ÷.

All four digits must be used in each equation, and each equation must follow the correct order of operations.

For example:  $(2 + 3) \times 4 \times 1 = 20$

## Investigation 6 – Order of Operations

Number to make	Calculation
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	