

This document gives you an idea of the type of content in the TI-Nspire file.

## Order of Operations

Version 1.0

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The order of operations is

given by **BIMA**:

**B** rackets

**I** ndices and Square Roots

**M** ultiplication & Division, left to right

**A** ddition & Subtraction, left to right

	Type the expression $2 + 3 \times 5$ into the window on the left. Before pressing [enter], what do you think the answer is?
0/99	

|

Type the expression  
 $(2 + 3) \times 5$   
into the window on  
the left.

Before pressing  
[enter], what do you  
think the answer is?

0/99

The equation below is missing some  
brackets. Re-type the expression with  
brackets to make it true.

$3+5\cdot 4=32$

false

|

1/99

The equation below is missing some  
brackets. Re-type the expression with  
brackets to make it true.

$20-10-4=14$

false

|

1/99

## The Three Dice Game – Rules

The teacher throws 3 dice. Use these numbers to make as many expressions as you can that equal 0, 1, 2, ..., 10 using

- the 3 numbers in any order
- add, subtract, multiply and divide

- square root
- indices (where the index is one of the numbers)
- brackets

Note: Each number must be used *exactly* once!

$$6-3\cdot 2 \quad 0$$

$$\frac{6}{3\cdot 2} \quad 1$$

$$2^3-6 \quad 2$$

$$\sqrt{\frac{3\cdot 6}{2}} \quad 3$$

$$| \quad \quad \quad$$

Say the numbers were:

6 3 2

The expressions on the left evaluate to 0, 1, 2 and 3 respectively.

Can you make an expression that evaluates to 4?