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

Order of Operations

Version 1.0

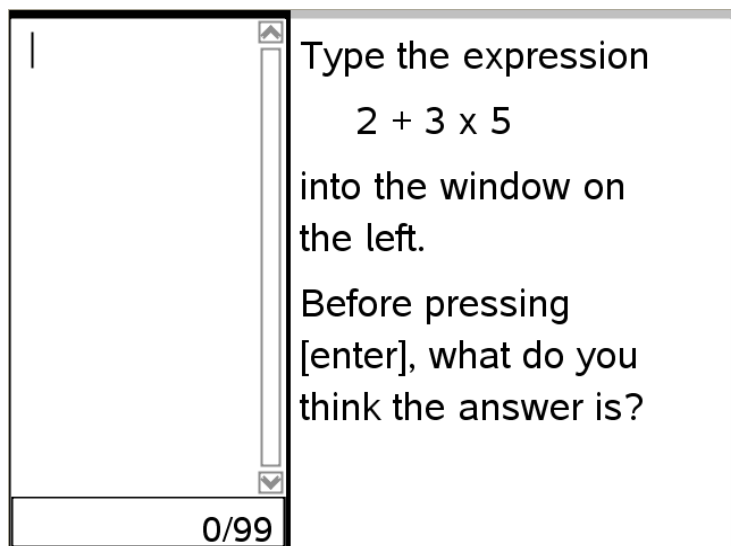© Rex Boggs, June 2007

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

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Type the expression

2 + 3 x 5

into the window on the left.

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

|

Type the expression

(2 + 3) x 5

into the window on the left.

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

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

$3+5 \cdot 4 = 32$ false

|

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

$20-10-4 = 14$ false

|

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

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

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

$6-3\cdot2$	0
$\dfrac{6}{3\cdot2}$	1
$2^{3}-6$	2
$\sqrt{\dfrac{3\cdot6}{2}}$	3
$|$	

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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?