**Math 8: Integer Investigation DRAFT**

**Integer Order of Operations Project: *What’s YOUR number?***

* **Two interesting facts** about your integer:

|  |  |
| --- | --- |
| 1.  | 2.  |

* **Four different equations** that equal your integer.
* You must use all six BEDMAS operations at least once in each equation.
	+ - *brackets, exponent, division, multiplication, adding, subtracting*
* Each equation must have at least one negative number.
* Each equation must be significantly different than the other expressions (i.e. do not use + 1 in every expression).
* All the work required to calculate the integer is clearly shown.

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| --- | --- |
| 1. Equation: | 2. Equation: |
| 1. All steps required to equal your integer: | 2. All steps required to equal your integer: |

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| 3. Equation: | 4. Equation: |
| 3. All steps required to equal your integer: | 4. All steps required to equal your integer: |

*Command Terms for Mathematics*

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| **Apply -** Use knowledge and understanding in response to a given situation or real circumstances. Use an idea, equation, principle, theory or law in relation to a given problem or issue. **Communicate** - Express oneself in such a way that one is readily and clearly understood. Convey information about the exchange of thoughts, messages, or information through, for example, speech, signals, writing or behaviour. **Demonstrate** - Prove or make clear by reasoning or evidence, illustrating with examples or practical application. **Describe** - Give a detailed account or picture of a situation, event, pattern or process. **Discuss** - Offer a considered and balanced review that includes a range of arguments, factors or hypotheses. Opinions or conclusions should be presented clearly and supported by appropriate evidence.  | **Explain** - Give a detailed account including reasons or causes. **Identify** - Provide an answer from a number of possibilities. Recognize and state briefly a distinguishing fact or feature. **Justify** - Give valid reasons or evidence to support an answer or conclusion. **Prove** - Use a sequence of logical steps to obtain the required result in a formal way. **Select** - Choose from a list or group. **Solve** - Obtain the answer(s) using algebraic and/or numerical and/or graphical methods. **State** - Give a specific name, value or other brief answer without explanation or calculation. **Suggest** - Propose a solution, hypothesis or other possible answer. **Use** - Apply knowledge or rules to put theory into practice. **Verify** - Provide evidence that validates the result |