

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Learning Goal 1.3**




I can apply order of operations to integers.





**Reasoning and Analyzing Four 4s**

Using four 4s (the numbers 4, 4, 4 and 4) and the operations +, −, ×, ÷ and brackets, determine the order of operations that will give an expression the value of 1 to 10 inclusive.

|  |      |
|--|------|
|  | = 1  |
|  | = 2  |
|  | = 3  |
|  | = 4  |
|  | = 5  |
|  | = 6  |
|  | = 7  |
|  | = 8  |
|  | = 9  |
|  | = 10 |

Assessment:

| Reasoning and Analyzing (Curricular Competency)                          | Emerging | Developing  | Proficient  | Extending   |
|--|----------|---|---|---|
|  |          |  |  |  |
| Use reasoning and logic to explore, analyze and apply mathematical ideas |          |   |   |   |

|  |  |
|--|--|
| Emerging   | Has difficulty with this task. Needs help getting started. May only be able to find the equation to one or two answers. Has difficulty coming up with strategies to solve. Needs assistance to determine if the solutions are correct. |
|   |  |
| Developing   | Can get started with this task but may have some difficulties in completing all of it. May need some help finding the equations for some numbers. Relies on one or two strategies for finding equations.                               |
|   |  |
| Proficient   | Has no difficulty getting started. Uses many different strategies to find the equations. Can check their own solutions.  |
|   |  |
| Extending  | Has no difficulty getting started. Goes beyond the usual strategies to find solutions. Can check their own solutions. Can help explain strategies to classmates.   |
|  |  |

**Connecting and Reflecting (Curricular Competency)**

Explain how you completed this task. Choose two equations to give a detailed explanation of how you determined the equation.

Did you find more than one solution for any answer? Explain.