

# Operations Rubric

## SNAP (Student Numeracy Assessment & Practice)

| Competency   | 1<br><i>Student understanding and application of number operations is not evident</i>  | 2<br><i>The student demonstrates some understanding and application of number operations</i>   | 3<br><i>The student demonstrates proficient understanding and application of number operations</i>   | 4<br><i>The student demonstrates superior understanding and application of number operations.</i>  |
|--|--|--|--|--|
| <b>Communicating and Representing</b><br><i>Entire Assessment</i>          | <ul style="list-style-type: none"> <li>Communication (written, pictorial or symbolic) of understanding is not evident</li> </ul> | <ul style="list-style-type: none"> <li>Communicates (written, pictorial or symbolic) limited understanding</li> </ul>                    | <ul style="list-style-type: none"> <li>Communicates (written, pictorial or symbolic) clear understanding in multiple ways</li> </ul>             | <ul style="list-style-type: none"> <li>Communicates (written, pictorial or symbolic) insightful understanding in multiple ways</li> </ul>                                |
| <b>Understanding and Solving</b><br><i>Draw &amp; Calculate Boxes</i>      | <ul style="list-style-type: none"> <li>Strategies to solve the problem and show understanding are not evident</li> </ul>         | <ul style="list-style-type: none"> <li>Strategies to correctly solve the problem and show understanding are simple or limited</li> </ul> | <ul style="list-style-type: none"> <li>Uses <b>grade appropriate</b> strategies to correctly solve the problem and show understanding</li> </ul> | <ul style="list-style-type: none"> <li>Uses multiple strategies (<b>some beyond grade expectations</b>) to correctly solve the problem and show understanding</li> </ul> |
| <b>Connecting and Reflecting</b><br><i>Real Life Example/ Word Problem</i> | <ul style="list-style-type: none"> <li>Real life example and connections to mathematical concepts are not evident</li> </ul>     | <ul style="list-style-type: none"> <li>Real life example and connections to mathematical concepts are limited</li> </ul>                 | <ul style="list-style-type: none"> <li>Real life example and connections to mathematical concepts are evident</li> </ul>                         | <ul style="list-style-type: none"> <li>Real life example and connections to mathematical concepts are insightful</li> </ul>  |
| <i>Reflection</i>  | <ul style="list-style-type: none"> <li>Simple reflections on mathematical thinking are not evident</li> </ul>                    | <ul style="list-style-type: none"> <li>Simple reflections on mathematical thinking are evident</li> </ul>                                | <ul style="list-style-type: none"> <li>Some insight on mathematical thinking is evident</li> </ul>   | <ul style="list-style-type: none"> <li>Insightful reflection on mathematical thinking is evident</li> </ul>  |
| <b>Reasoning and Analyzing</b><br><i>Estimate &amp; Justify Box</i>        | <ul style="list-style-type: none"> <li>Estimation/mental math strategies and justification are not evident</li> </ul>            | <ul style="list-style-type: none"> <li>Estimation/mental math strategies and justification are simple</li> </ul>                         | <ul style="list-style-type: none"> <li>Estimation/mental math strategies and justification are reasonable</li> </ul>                             | <ul style="list-style-type: none"> <li>Estimation/mental math strategies are reasonable and justification is detailed</li> </ul>   |