

|  | Mathematics Grade 8 |  |  | June, 2020 |
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| Mathematics Grade 8 Number (N) |  |  |  |  |
| Outcome | 1 - Beginning The student is having difficulty demonstrating an understanding of the concept. | 2-Approaching <br> The student is developing an understanding of the concept. | 3 - Meeting <br> The student consistently demonstrates an understanding of the concept or has achieved the concept. | 4- Exemplary <br> The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations. |
| 8N. 2 <br> I can expand and demonstrate understanding of percents greater than or equal to $100 \%$ (including fractional and decimal percents) concretely, pictorially, and symbolically. [CN, PS, R, V] | - With help, I can represent percentages between $1 \%$ and $100 \%$ using objects, pictures OR symbols. <br> - I can record the percentage of a quantity with percentages between $1 \%$ and $100 \%$. <br> - I can solve problems involving percentages between $1 \%$ and $100 \%$. | - I can represent percentages between $1 \%$ and $100 \%$ using objects, pictures OR symbols. <br> - I can record the percentage, fraction and decimal forms of a quantity with percentages between $1 \%$ and $100 \%$. <br> - I can solve problems involving percentages between 1\% and $100 \%$ and explain my thinking. | - I can represent a fractional percent and a percentage greater than 100 using grid paper. <br> - I can record the percentage, fraction and decimal forms of a quantity with fractional percentages and percentages greater than 100. <br> - I can solve problems involving percentages </> 100\% and explain my thinking. | - I can represent a fractional percent and a percentages greater than 100 in more than one way. <br> - I can record the percentage, fraction and decimal forms of a quantity with fractional percentages and percentages <br> greater than 100 and explain <br> which representation is most <br> appropriate for a given context. <br> - I can solve complex, multistep problems using analysis and decision making based upon percentages. |



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| Comments |  |  |  |  |
| 8N. 4 <br> I can demonstrate understanding of multiplying and dividing positive fractions and mixed numbers, concretely, pictorially, and symbolically. [C, CN, ME, PS] | - With help, I can show how to multiply common fractions using objects, pictures, OR symbols. | - I can show how to multiply common fractions using objects, pictures, OR symbols. | - I can show how to multiply common fractions using objects, pictures, AND symbols, use simplification strategies, and explain my reasoning. | - I can show how to efficiently multiply common fractions using objects, pictures, and symbols and explain my reasoning. |
|  | - With help, I can show how to multiply mixed numbers using objects, pictures, OR symbols. | - I can show how to multiply mixed numbers using objects, pictures, OR symbols. | - I can show how to multiply mixed numbers using objects, pictures, AND symbols, use simplification strategies, and explain my reasoning. | - I can show how to efficiently multiply mixed numbers using objects, pictures, and symbols. |
|  | - With help, I can show how to divide common fractions using objects, pictures, OR symbols. | - I can show how to divide common fractions using objects, pictures, OR symbols. | - I can show how to divide common fractions using objects, pictures, AND symbols, use simplification strategies, and explain my reasoning. | - I can show how to efficiently divide common fractions using objects, pictures, and symbols. |
|  | - With help, I can show how to divide mixed numbers using objects, pictures, OR symbols. | - I can show how to divide mixed numbers using objects, pictures, OR symbols. | - I can show how to divide mixed numbers using objects, pictures, AND symbols, use simplification strategies, and explain my reasoning. | - I can show how to efficiently divide mixed numbers using objects, pictures, and symbols. |
|  | - With help, I can determine the important information in a problem involving fractions. | - I can use symbols to represent significant quantities and operations in a problem. | - I can solve word problems involving fractions. | - I can solve word problems involving fractions, AND debate generalities such as "multiplication always results in a larger quantity and division always results in a smaller quantity." |



| Good Spirit | Mathematics Grade 8 |  |  | June, 2020 |
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