Student Name: Date: Due Date:

Grade: Start Time: End Time:

Comments:

1. What is the primary rule you must check about the denominators before adding or subtracting two fractions?

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2. Explain why you can directly add $\frac{1}{8}+\frac{2}{8}$ but you cannot directly add $\frac{1}{2}+\frac{1}{3}$.

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3. When adding two fractions with the same denominator, such as $\frac{a}{c}+\frac{b}{c}$, what do you do to the numerators and the denominators?

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4. If you want to add $\frac{1}{2}+\frac{1}{5}$, what is the necessary first step before performing any addition?

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5. Why do we look for the Least Common Multiple (LCM) of the denominators when finding a common denominator?

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6. A student claims that $\frac{1}{3}+\frac{1}{3}=\frac{2}{6}$. Explain the error in the student's reasoning.

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7. Explain the standard rule for multiplying a fraction by a whole number.

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8. A circle is split into 6 equal slices, and 5 of them are shaded. Write a fraction to represent the shaded area.

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9. Can a whole number like 4 be written as a fraction? If yes, show how to write it.

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10. Express the division statement $5 \div 8$ as a fraction.

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11. In math word problems, what operation is usually indicated by the phrase "half of" a number?

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12. Complete the general rule for multiplying two fractions: $\frac{a}{b} \times \frac{c}{d} = \frac{\square}{\square}$.

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13. In the expression $\frac{3}{4} \times \frac{4}{5}$, what can you do to make it simpler to solve before multiplying across?

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14. Define what a reciprocal is in your own words.

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15. What is the step-by-step method to find the reciprocal of a given fraction?

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16. Find the reciprocal of the fraction $\frac{10}{4}$.

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17. Dividing a whole number by a fraction is equivalent to multiplying that whole number by what?

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18. Complete the following algebraic division rule: $\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{\square}{\square}$.

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