Number

Activity 7 Assessment

Operations with Positive and Negative Fractions and Decimals

Content: Operating with Rational Numbers			
Solves an operational problem involving one type of rational number with like signs "To find $\frac{5}{8} + 1\frac{1}{2}$, I wrote both fractions with a common denominator then added: $\frac{5}{8} + 1\frac{4}{8} = 1 + \frac{9}{8} = 2\frac{1}{8}$"	Solves an operational problem involving one type of rational number with opposite signs "I thought of 3 × (–4.6) as 3 jumps of 4.6 to the left on a number line. So, that is 3 × 4.6 = 13.8 to the left, or –13.8."	Solves an operational problem involving different types of rational numbers "To add –5.24 and $-\frac{7}{4}$, I wrote $-\frac{7}{4}$ as the decimal –1.75. Then I could think of –5.24 + (–1.75) as –5.24 – 1.75 = –6.99."	Uses a variety of strategies to solve operational problems involving rational numbers "To add –5.24 and $-\frac{7}{4}$, I could write –5.24 as $-5\frac{24}{100}$. $-5\frac{24}{100} + (-\frac{7}{4})$ $= -5\frac{24}{100} + (-\frac{175}{100})$ $= -5\frac{199}{100}$, or $-6\frac{99}{100}$"
Observations/Documentation			

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Competency: Representing Operations with Rational Numbers			
Represents an operation involving one type of rational number "I used a number line to represent the multiplication of two integers."	Represents an operation involving different types of rational numbers "To multiply a fraction and a decimal, I rewrote the fraction as a decimal, then multiplied the decimals."	Represents an operation involving rational numbers in more than one way "To multiply a fraction and a decimal, I could also rewrite the decimal as a fraction, then multiply the fractions."	Flexibly selects representation to efficiently solve a problem involving operations with rational numbers "To multiply a fraction and a decimal, I find it more efficient to write the fraction as a decimal, then multiply as I would whole numbers, using estimation to place the decimal point."
Observations/Documentation			