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| **Conceptual Meaning of Addition and Subtraction of Decimals** | | |
| Recognizes addition and subtraction situations and models concretely or pictorially to add or subtract to hundredths (using hundredths grids or Base Ten Blocks)   25.86 – 17.23  = ?  **A graph of a graph with a number of numbers  Description automatically generated**  “86 hundredths – 23 hundredths =  63 hundredths  25 – 17 = 8”  25.86 – 17.23 = 8.63 | Uses an understanding of place value to add or subtract decimals with hundredths (using standard algorithm)  25.86 − 17.23 = ?  **A number with red mark  Description automatically generated**  “I used the standard algorithm to subtract the hundredths, then the tenths, and then the whole numbers.” | Models to add or subtract decimals with thousandths (e.g., using thousandths grids or number lines)  43.600 – 1.345 = ?    “600 thousandths – 345 thousandths =  255 thousandths 43 – 1 = 42.”   43.6 – 1.345 = 42.255 |
| **Observations/Documentation** | | |
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| **Conceptual Meaning of Addition and Subtraction of Decimals (cont’d)** | | |
| Uses an understanding of place value to add or subtract decimals with thousandths (e.g., using standard algorithm)  A number with red and black numbers  Description automatically generated   “I used the standard algorithm to subtract the thousandths, then the hundredths, then the tenths, and then the whole numbers.” | Uses estimation and mental math strategies to check reasonableness of solutions  43.6 – 1.345 = 42.255  43.6 is close to 44. 1.345 is close to 1. 44 – 1 = 43  “42.255 is the answer I calculated, and it is close to 43, so my answer is reasonable.” | Solves addition and subtraction problems flexibly, using a variety of strategies  Naomi swam 1.5 km, rode a bicycle for  35.29 km, and ran for 8.375 km. What was the total distance Naomi travelled?  1.5 km + 35.29 km + 8.375 km = ?  A number with red numbers  Description automatically generated  “I wrote each number as a decimal with thousandths.  Naomi travelled 45.165 km in total.” |
| **Observations/Documentation** | | |
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| **Adding and Subtracting Fractions with Like Denominators** | | | |
| Expresses the composition or decomposition of a quantity as a sum or difference  <catch: pick up  A red and white striped flag  Description automatically generated  **“**I can think of as + + + , or as + .  I can also think of as − − , or as − .” | Adds and subtracts concretely or pictorially  **+ = ?**    “Because each whole is divided into fourths, I can add the parts. 3 fourths + 2 fourths = 5 fourths. 5 fourths make 1 whole and .”    + = = 1  “I modelled on the number line,  then counted on from :  4 fourths, 5 fourths.” | Adds and subtracts symbolically    “I converted 3 to ,  then subtracted. I checked my answer using addition.” | Flexibly solves problems involving the addition and subtraction of fractions    “ needs to be added to the other fractions to equal 2.” |
| **Observations/Documentation** | | | |
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