## Activity 24 Assessment

Consolidating Operations with Fractions and Decimal

| 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) <br> " 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) $\begin{array}{r} 25.86-17.23=? \\ 11 \\ 25.86 \\ -17.23 \\ \hline 8.63 \end{array}$ <br> "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) $43.600-1.345=?$ <br> " 600 thousandths -345 thousandths $=$ 255 thousandths $43-1=42$." $43.6-1.345=42.255$ |
| Observations/Documentation |  |  |
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## Activity 24 Assessment

Consolidating Operations with Fractions and Decimal

| 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) $\begin{array}{r} 591 \\ 43.6 \emptyset 0 \\ -1.345 \\ \hline 42.255 \end{array}$ <br> "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 $43.6-1.345=42.255$ <br> 43.6 is close to 44.1 .345 is close to 1 . $44-1=43$ <br> "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 <br> 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? $1.5 \mathrm{~km}+35.29 \mathrm{~km}+8.375 \mathrm{~km}=?$ $\begin{array}{r} 11 \\ 1.500 \\ 35.290 \\ +\quad 8.375 \\ \hline 45.165 \end{array}$ <br> "I wrote each number as a decimal with thousandths. Naomi travelled 45.165 km in total." |
| Observations/Documentation |  |  |
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## Activity 24 Assessment

Consolidating Operations with Fractions and Decimal

| Adding and Subtracting Fractions with Like Denominators |  |  |  |
| :---: | :---: | :---: | :---: |
| Expresses the composition or decomposition of a quantity as a sum or difference <catch: pick up <br> "Il can think of $\frac{4}{6}$ as $\frac{1}{6}+\frac{1}{6}+\frac{1}{6}+\frac{1}{6}$, or $\text { as } \frac{1}{6}+\frac{3}{6} \text {. }$ <br> I can also think of $\frac{4}{6}$ as $\frac{6}{6}-\frac{1}{6}-\frac{1}{6}$, or $\text { as } \frac{6}{6}-\frac{2}{6} \text {." }$ | Adds and subtracts concretely or pictorially $\frac{3}{4}+\frac{2}{4}=?$ <br> "Because each whole is divided into fourths, I can add the parts. 3 fourths +2 fourths $=5$ fourths. 5 fourths make 1 whole and $\frac{1}{4}$." <br> "I modelled on the number line, then counted on from $\frac{3}{4}$ : 4 fourths, 5 fourths." | Adds and subtracts symbolically $\begin{aligned} 3 \frac{1}{8}-\frac{6}{8} & =? \\ 3 \frac{1}{8} & =\frac{25}{8} \\ \frac{25}{8}-\frac{6}{8} & =\frac{19}{8}, \text { or } 2 \frac{3}{8} \end{aligned}$ <br> "I converted $3 \frac{1}{8}$ to $\frac{25}{8}$, <br> then subtracted. I checked my answer using addition." | Flexibly solves problems involving the addition and subtraction of fractions $\begin{aligned} 1 \frac{3}{10}+\frac{8}{10}+? & =2 \frac{7}{10} \\ 1 \frac{3}{10}+\frac{8}{10}=1 \frac{11}{10} & =2 \frac{1}{10} \\ 2 \frac{7}{10}-2 \frac{1}{10} & =\frac{6}{10} \\ 2 \frac{1}{10}+\frac{6}{10} & =2 \frac{7}{10} \end{aligned}$ <br> " $\frac{6}{10}$ needs to be added to the other fractions to equal $2 \frac{7}{10}$." |
| Observations/Documentation |  |  |  |
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