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| **Conceptual Meaning of Whole Number Addition and Subtraction** | | |
| Recognizes addition and subtraction situations and models concretely to add or subtract to 1000  148 + 223 = ? | Models and symbolizes ways to solve problems to 1000  148 + 223 = ? | Uses an understanding of place value to decompose both numbers to solve problems to  10 000    “I subtracted the hundreds, the tens,  and then the ones.” |
| **Observations/Documentation** | | |
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| **Conceptual Meaning of Whole Number Addition and Subtraction (cont’d)** | | |
| Uses an understanding of place value to add and subtract to 10 000 using the standard algorithm    “I had 16 ones. So I traded 10 ones for 1 ten.” | Estimates to determine if answer to problem is reasonable  896 - 345 = ?  “896 is close to 900. 345 is close to 350.  900 - 350 = 550. 550 is close to 551, the answer I calculated, so my answer is reasonable.” | Creates and solves addition and subtraction problems flexibly using a variety of strategies  1874 raffle tickets were sold in advance. 227 more tickets were sold at the door. How many tickets were sold altogether? |
| **Observations/Documentation** | | |
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| **Estimating Sums and Differences** | | | |
| Uses front-end estimation  Estimate: 28 + 46 + 177 + 158  20 + 40 + 100 + 100 = 260  “I estimate about 260.” | Uses rounding to write each number to the nearest ten  Estimate: 28 + 46 + 177 + 158  30 + 50 + 180 + 160 = 420  “I estimate about 420.” | Uses rounding and compensation  Estimate: 28 + 46 + 177 + 158 I’ll round two up and two down.  30 + 40 + 170 + 160 = 400  “I estimate about 420.” | Estimates flexibly to check reasonableness of solutions  3123 + 1248 + 4169 + 1150 = 9690  Estimate to check:  123 + 169 is about 300,  so 3123 + 4169 is about 7300.  248 + 150 is about 400,  so 1248 + 1150 is about 2400.  7300 + 2400 is 9700.  Since 9690 is close to 9700,  the solution seems reasonable. |
| **Observations/Documentation** | | | |
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