## Activity 11 Assessment

 Creating and Solving Problems| Developing Fluency of Whole Number Addition and Subtraction |  |  |
| :---: | :---: | :---: |
| Uses known sums and differences to fluently solve addition and subtraction problems to 100 $25+76=?$ <br> "I know $25+75=100$. Since 76 is 1 more than 75 , the answer is $101 . "$ | Purposefully uses properties or relationships to solve addition and subtraction problems $25+44+76=?$ <br> "I can rearrange the numbers to make it easier to add." $\begin{aligned} 25+76+44 & =101+44 \\ & =145 \end{aligned}$ | Understands the inverse relationship between addition and subtraction and applies it to solve problems $645-227=?$ <br> "I can rewrite it as an addition problem: $227+?=645 .$ <br> I can use friendly numbers. $200+400=600 \text { and } 27+18=45 .$ <br> The missing part is $400+18=418$. <br> Check: $227+418=645$." |
| Observations/Documentation |  |  |
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## Activity 11 Assessment <br> Creating and Solving Problems

| Developing Fluency of Whole Number Addition and Subtraction (cont'd) |  |  |
| :---: | :---: | :---: |
| Applies mental strategies and algorithms to add and subtract (e.g. using benchmark numbers, known facts, partial sums) <br> "I could used partial sums or the standard algorithm." | Uses estimation to check the reasonableness of solutions <br> This year 227 children, 34 teachers, and 18 supervisors will attend the local fair. How many people will attend altogether? <br> " 227 is close to 230,34 is close to 35 , and 18 is close to $20.230+35+20=285$. I overestimated because we want to make sure we have enough buses." | Flexibly creates and solves addition and subtraction problems and checks reasonableness of solutions <br> 185 students were to attend the assembly. 27 students were absent form school. How many students attended the assembly? $\begin{aligned} 185-27 & =185-30+3 \\ & =155+3 \\ & =158 \end{aligned}$ <br> " $190-30=160$. Since 160 is close to 158 , solution is reasonable." |
| Observations/Documentation |  |  |
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