## Activity 6 Assessment

 Solving Problems with Whole Numbers| Developing Fluency with Whole Number Operations |  |  |
| :---: | :---: | :---: |
| Understands number relationships and properties and applies them to whole number operations. $\begin{array}{rlrl} ?-240 & =720 & 50 \times ? & =2000 \\ 720+240 & =960 & 2000 \div 50 & =40 \end{array}$ <br> "I solved each equation using an operation I am comfortable with." | Uses estimation to check reasonableness of solutions. <br> A forklift can carry 2000 kg . An operator is unloading boxes of shoes weighing 78 kg . How many boxes can the forklift safely carry at one time? $78 \times ?=2000$ <br> " 78 is close to 80 . I know $80 \times 20=1600$ and $80 \times 5=400.1600+400=2000$. An estimate of 25 boxes seems reasonable." | Uses mental math strategies to solve single-step equations with larger numbers. <br> "I decomposed the numbers to make multiplying easier." |
| Observations/Documentation |  |  |
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## Activity 6 Assessment

 Solving Problems with Whole Numbers| Developing Fluency with Whole Number Operations (cont'd) |  |  |
| :---: | :---: | :---: |
| Solves multi-step equations using mental math strategies and properties of operations. $\begin{aligned} 1560+1682-440-602 & =? \\ 1560-440 & =1120 \\ 1682-602 & =1080 \\ 1120+1080 & =2200 \end{aligned}$ | Uses order of operations to solve equations and explains the effect when order is not followed. $\begin{aligned} 9 \times 8-3+16 \div 4 & =72-3+4 \\ & =73 \end{aligned}$ <br> "I have to do multiplication and division first. If the order isn't followed and I perform the operations in the order in which they appear, I get 21 R1." | Flexibly selects mental math strategies and applies order of operations to solve multi-step equations/problems. <br> To claim the prize in a contest, you must answer this skill-testing question: $19+11 \times 6-4=?$ $\begin{aligned} 19+11 \times 6-4 & =19+66-4 \\ & =20-1+66-4 \\ & =20+66-1-4 \\ & =86-5 \\ & =81 \end{aligned}$ |
| Observations/Documentation |  |  |
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