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| **Developing Fluency with Whole Number Operations** |
| Understands number relationships and properties and applies them to whole number operations. “I solved each equation using an operation I am comfortable with.” | Uses estimation to check reasonableness of solutions.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 × ? = 2000“78 is close to 80. I know 80 × 20 = 1600 and 80 × 5 = 400. 1600 + 400 = 2000. An estimate of 25 boxes seems reasonable.” | Uses mental math strategies to solve single-step equations with larger numbers.“I decomposed the numbers to make multiplying easier.” |
| **Observations/Documentation** |
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| **Developing Fluency with Whole Number Operations (cont’d)** |
| Solves multi-step equations using mental math strategies and properties of operations. | Uses order of operations to solve equations and explains the effect when order is not followed.“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.To claim the prize in a contest, you must answer this skill-testing question:19 + 11 × 6 – 4 = ? |
| **Observations/Documentation** |
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