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| **Determining Multiples and Factors** |
| Uses skip-counting or repeated addition to find multiples4, 8, 12, 16, 20, …“To find multiples of 4, I skip counted by 4.” | Uses familiar basic facts to identify some multiples and factors 2 × 4 = 8 3 × 4 = 12 10 × 4 = 40“I thought of the multiplication facts for 4 that I know.” | Uses efficient strategies to determine multiples and identify all factors “To find factors of 8, I start  8 ÷ 1 = 8  Factors are 1 and 8. 8 ÷ 2 = 4  Factors are 2 and 4. 8 ÷ 3 = X  8 ÷ 4 = 2  So, 1, 2, 4, and 8 are all factors.” |
| **Observations/Documentation** |
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| **Determining Multiples and Factors (cont’d)** |
| Uses concrete materials to identify prime and composite numbers“7 is prime because it has only 2 factors, 1 and 7. 12 is composite because it has more than 2 factors: 1 and 12, 2 and 6, and 3 and 4.” | Identifies common multiples/factors and greatest common factor for a pair of numbersFactors of 24: **1**, **2**, 3, **4**, 6, **8**, 12, 24 Factors of 56: **1**, **2**, **4**, 7, **8**, 14, 28, 56“The greatest common factor is 8.” | Solves problems involving common factors and multiples“Choir practice is every 5th day.Gymnastics is every 3rd day.That means choir and gymnastics both happen every 15th day.” |
| **Observations/Documentation** |
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| **Fluency of Multiplication and Division Facts** |
| Recalls and demonstrates multiplication and divisions facts to 5 × 5A picture containing icon  Description automatically generated“I know that 4 × 6 = 24 and that 24 ÷ 6 = 4. The array shows both facts.” | Uses inverse operations to solve multiplication and division problemsA picture containing icon  Description automatically generated“I can rewrite 24 ÷ 6 = ?as 6 × ? = 24.” | Uses known facts to determine unknown facts “I can use the distributive property to split the multiplication into facts that I know, then add.”5 × 9 = 5 × 5 + 5 × 425 + 20 = 45Chart, bar chart  Description automatically generated | Fluently creates and solves whole number multiplication problems with factors to 12 and related division problems There are 96 basketballs with the same number on each of 12 shelves.A picture containing bubble chart  Description automatically generated12 × □ = 96, so 96 ÷ 12 = □ 12 × 8 = 96Or12 × 8 = 6 × 8 + 6 × 8  = 48 + 48  = 96 |
| **Observations/Documentation** |
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