|  |  |  |  |
| --- | --- | --- | --- |
| **Developing Divisibility Rules for 3, 6, and 9** | | | |
| Understands and applies a divisibility rule for 3  456 is divisible by 3 because the sum of its digits is: 4 + 5 + 6 = 15, and 15 is divisible by 3 | Understands and applies a divisibility rule for 6  Because 6 = 2 × 3, if a number is divisible by 2 (an even number) and it is divisible by 3, then that number is divisible by 6.  126 is divisible by 6 because 126 is an even number and the sum of its digits is 9. | Understands and applies a divisibility rule for 9  Because 9 = 3 × 3, if a number is divisible by 3 twice, then that number is divisible by 9. The sum  of the digits must be a multiple of 9.  126 is divisible by 9 because the sum of its digits is 9. | Understands and applies divisibility rules for 2, 3, 4, 5, 6, 8, 9, and 10  I know that 7350 is divisible:  • by 2, because 7350 is an even   number  • by 3 because the sum of the digits   of 7350 is 15, which is divisible   by 3  • by 6, because 7350 is divisible   by 2 and by 3  • by 5 and by 10, because 7350 has   0 in the ones place |
| **Observations/Documentation** | | | |
|  |  |  |  |