**Divisibility Worksheet**

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**Divisibility Rules**

2 - The last digit will be 0, 2, 4, 6, 8
3 - The sum of the digits is a multiple of 3 (3654...3 + 6 + 5 + 4 = 18 (18 ÷ 3 = 6))
4 - The last two digits are a multiple of 4 (12364...64 ÷ 4=16)
5 - The last digit will be 0 or 5
6 - The number is divisible by BOTH 2 & 3
8 - The last three digits are divisible by 8
10 - The last digit will be 0
12 - The number is divisible by BOTH 3 & 4
15 - The number is divisible by BOTH 3 & 5
Determine if the numbers below are divisible by 2, 3, 4, 5, 6, 7, 8, 9, 10. Justify your answer and show your work.

Example: 148
1. Divisible by 2 since the last digit is even.
2. Not divisible by 3 since the sum (1 + 4 + 8 = 13) of the three digits is NOT divisible by 3.
3. Divisible by 4 since the last two digits are divisible by 4.
4. Not divisible by 5 since the last digit does NOT end in 0 or 5.
5. Not divisible by 6 since it is NOT divisible both by 2 and 3.
6. Not divisible by 7 since 8(1) + 4(2) + 1(3) = 19 and 6 is NOT divisible by 7.
7. Not divisible by 8 since last three digits are NOT divisible by 8.
8. Not divisible by 9 since the sum (1 + 4 + 8 = 13) of the three digits is NOT divisible by 9.
9. Not divisible by 10 since last digit is NOT zero.

1. 447
2. 7168