Divisibility Rules

Name_____ Date_____

Fill in the divisibility rules and add examples for each rule. Remember: A number is **divisible** by another number if the quotient is a whole number and the remainder is zero.

Divisibility Rules	
A number is divisible by...	**Examples**
2 if the last digit is **even** (0, 2, 4, 6, or 8).	**24, 78, 100**
3 if the **sum** of the digits is divisible by 3.	**15, 87, 96**
4 if the last two digits form a **number** that is divisible by 4.	**108, 312, 724**
5 if the last digit is **0 or 5**.	**35, 90, 215**
6 if the number is divisible by both **2 and 3**.	**18, 72, 132**
9 if the **sum** of the digits is divisible by 9.	**27, 108, 396**
10 if the **last digit** is 0.	**40, 90, 540**

Divisibility Challenge

Use divisibility rules and circle each factor that the number is divisible by.

57 is divisible by... 2 (3) 4 5 6 9 10	**84** is divisible by... (2) (3) (4) 5 (6) 9 10	**126** is divisible by... (2) (3) 4 5 (6) (9) 10	**230** is divisible by... (2) 3 4 (5) 6 9 (10)
342 is divisible by... (2) (3) 4 5 (6) (9) 10	**453** is divisible by... 2 (3) 4 5 6 9 10	**610** is divisible by... (2) 3 4 (5) 6 9 (10)	**857** is divisible by... 2 3 4 5 6 9 10 **(none of these)**
916 is divisible by... (2) 3 (4) 5 6 9 10	**2,058** is divisible by... (2) (3) 4 5 (6) 9 10	**8,616** is divisible by... (2) (3) (4) 5 (6) 9 10	**73,260** is divisible by... (2) (3) (4) (5) (6) (9) (10)