

Name: _____ Period: _____

Divisibility Worksheet

#3 → third
#5 → fifth
#7 → seventh
#2 → second
#6 → sixth
#8 → eighth
#4 → fourth
#1 → first

Number	Digit Sum	2	3	4	5	6	8	9	10	Number Divisible by:
1248	$1+2+4+8=15$	✓	✓	✓		✓				2, 3, 4, and 6
15	6		✓		✓					
16	7	✓		✓			✓			
27	9		✓					✓		
28	10	✓		✓						
36	9	✓	✓	✓		✓		✓		✓
57	12		✓							
70	7	✓			✓				✓	
75	12		✓		✓					
91	10									
93	12		✓							
102	3	✓	✓			✓				
144	9	✓	✓	✓		✓	✓	✓		✓
150	6	✓	✓		✓	✓			✓	
168	15	✓	✓	✓		✓	✓			✓
195	15		✓		✓					
225	9		✓		✓			✓		
256	13	✓		✓			✓			
268	16	✓		✓						
316	10	✓		✓						
450	9	✓	✓		✓	✓		✓	✓	
549	18		✓							
1470	12	✓	✓		✓	✓			✓	
4518	18	✓	✓			✓				
7120	10	✓		✓	✓		✓		✓	

Divisibility Rules

- 2 - The last digit will be 0, 2, 4, 6, 8
- 3 - The sum of the digits is a multiple of 3 ($3654 \dots 3 + 6 + 5 + 4 = 18$ ($18 \div 3 = 6$))
- 4 - The last two digits are a multiple of 4 ($12364 \dots 64 \div 4 = 16$)
- 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

multiples of 7
 7, 14, 21, 28, 35, 42, 49, 56, 63,
 70, 77, 84, ...