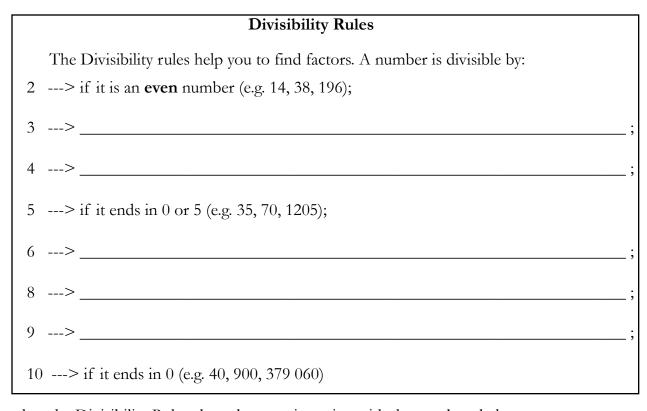
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## Creating Rules of Divisibility for Grade 7

A divisibility rule is \_\_\_\_\_

We can create a set of rules that we can use to determine if a number is divisible by certain other numbers. We can call this Divisibility Rules.



Complete the Divisibility Rules above by experimenting with the numbers below:

a. 27, 300, 111, 5121, 2415	<ul><li> these are all divisible by 3</li><li> add up the digits of each number - is there a clue?</li></ul>
b. 148, 404, 399 688, 716	- these are all divisible by 4 - look at the last <u>two</u> digits of each number - does that help?
c. 36, 402, 91 122, 102	<ul> <li>these are all divisible by 6</li> <li>they are also divisible by what two other numbers? (hint: they are less than 6)</li> </ul>
d. 1888, 4400, 3160	- these are all divisible by 8 - look at the last <u>three</u> digits of each number - do you see it?
e. 54, 8001, 73 611, 8892	- these are all divisible by 9 - this is similar to the rule for 3, only it is 9

	2. Circle the following numbers that are divisible by 3.								
	630	1701	960	1412	954	2354			
8	763	4251	885	5241	62 160	28 312			
	3. Circle the following numbers that are divisible by 4.								
	324	630	7168	3354	976	894			
8	6528	480	2616	84	6082	35 636			
	4. Circle the following numbers that are divisible by 6.								
		C		-					
3	876	789	4230	888	8433	124			
	5. Circle the following numbers that are divisible by 8								
	5. Circle the following numbers that are divisible by 8.								
4	2168	3124	4128	42 168	53 124	74 128			
	6. Circle the following numbers that are divisible by 9.								
4	181	2015	5409	70 245	702	108			
Ŧ									
	7. The number 3240 is divisible by what numbers from 2 to 10?								
8									
	8. The number 17 535 is divisible by what numbers from 2 to 10?								