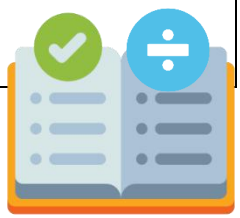
Divisibility rules

Grade 5 Factoring Worksheet

How do you know if a number is divisible by the following numbers? Write the rule and give an example.

Number	Rule
2	
3	
4	
5	
6	
9	
10	



Answers

Number	Rule
2	The last digit in the number is even. e.g. 14, 22, 456 all end in even numbers, so all are divisible by 2.
3	The sum of the digits of the number is divisible by 3. e.g. The sum of the digits of 342 is 3+4+2 = 9 which is divisible by 3, so 342 is divisible by 3.
4	The number formed by the last 2 digits is divisible by 4. e.g. the last 2 digits of 1,324 is 24, which is divisible by 4, so 1,324 is divisible by 4.
5	The last digit is 0 or 5. e.g. 25, 100, 365
6	The number is even and divisible by 3. e.g. 132 is even and is divisible by 3, so 132 is divisible by 6.
9	The sum of the digits of the number is divisible by 9. e.g. The sum of the digits of 1,485 is 1+4+8+5 = 18 which is divisible by 9, so 1,485 is divisible by 9.
10	The last digit is 0. e.g. 60, 110, 850