

Name: ..... Class: .....

Divisibility rules for 2, 3, 4, 5, 6, 7, 8, 9, and 10

**DIVISIBILITY RULES CHART.**



A number is divisible by:

2	If the last digit is even ( 0, 2, 4, 6, or 8)
3	If the sum of the digit is divisible by 3
4	If the last two digits is divisible by 4
5	If the last digit is 0 or 5
6	If the number is divisible by 2 and 3
7	If we double the last digit and subtract it from the rest of the number, and if the new number, is divisible by 7, then the original number is divisible by 7.
8	If the last 3 digits is divisible by 8
9	If the sum of the digits is divisible by 9
10	If the last digit is 0

1. Find out if 2,800 is divisible by 8.

2. Find out if 5,673 is divisible by 3.

3. Find out if 9972 is divisible by 6.

4. Find out if 392 is divisible by 7.

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7	If we double the last digit and subtract it from the rest of the number, and if the new number, is divisible by 7, then the original number is divisible by 7.
8	If the last 3 digits is divisible by 8
9	If the sum of the digits is divisible by 9
10	If the last digit is 0

1. Find out if 2,800 is divisible by 8.

Let's check if the last 3 digits is divisible by 8;

$$2,800 \div 8 = 350$$

So, since the last 3 digits is divisible by 8,  
it implies that 2,800 is divisible by 8.

2. Find out if 5,673 is divisible by 3.

Let's sum up all the digits

$$5,673 = 5 + 6 + 7 + 3 = 21$$

$$21 \div 3 = 7$$

So, since the sum of all the digits is divisible  
by 3, it implies that 5,673 is divisible by 3.

3. Find out if 9972 is divisible by 6.

Let's first of all check if the number is  
divisible by 3 :  $9972 = 9 + 9 + 7 + 2 = 27$   
 $27 \div 3 = 9$

Now, let's check if the number is divisible by 2  
Since the number is even, it implies that it is  
divisible by 2. Therefore, this number is divisible  
by 6 since it is divisible by 2 and 3.

4. Find out if 392 is divisible by 7.

We double the unit digit of 392 :

$$2 \times 2 = 4$$

Then we remove 4 from the remaining part 39:  
 $39 - 4 = 35$

The difference value obtained is 35 which is  
a multiple of 7 (i.e.  $7 \times 5 = 35$ ).

Thus, the number 392 is divisible by 7.