

# Divisibility Rules

A number is divisible by:

2	If the last digit is even
3	If the sum of the digits is divisible by 3
5	If the last digit ends in 5 or 0
6	If it is divisible by 2 and 3
9	If the sum of the digits is divisible by 9
10	If the last digit ends in 0

**Example:**

Check 225 for divisibility by 2,3,5,6,9 or 10

- 3 because  $2 + 2 + 5 = 9$  and 9 divides by 3 evenly
- 5 because 225 ends in 5
- 9 because  $2 + 2 + 5 = 9$  and 9 divides by 9 evenly
  
- not 2 because 225 is not even
- not 6 because 225 is not divisible by 2 and 3
- not 10 because 225 does not end in 0

Name \_\_\_\_\_

## Divisibility Practice

Determine if each number is divisible by 2,3,5,6,9 or 10.  
Make a list under each problem.

1.) 175

2.) 2001

3.) 1452

4.) 24,510

5.) 15,000

6.) 595

7.) 900

8.) 62,100

9.) 7,412

10.) 321

## Answer Key

- 1.) 5
- 2.) 3
- 3.) 2,3,6
- 4.) 2,3,5,6,10
- 5.) 2,3,5,6,10
- 6.) 5
- 7.) 2,3,5,6,9,10
- 8.) 2,3,5,6,9,10
- 9.) 2
- 10.) 3

## Rubric for Calendar

	<b>Commendable</b>	<b>Acceptable</b>	<b>See Teacher</b>
<b>Calendar</b>	<ul style="list-style-type: none"> <li>- Neatly drawn</li> <li>- Days labeled</li> <li>- Months labeled</li> </ul>	<ul style="list-style-type: none"> <li>- Fairly neat</li> <li>- Most days and months labeled</li> </ul>	<ul style="list-style-type: none"> <li>- Drawn carelessly</li> <li>- Days not labeled</li> <li>- Months not labeled</li> </ul>
<b>Paragraph</b>	<ul style="list-style-type: none"> <li>- Thoughts organized</li> <li>- Clear descriptions</li> <li>- Flows in some sequence</li> <li>- Creative</li> </ul>	<ul style="list-style-type: none"> <li>- Some organization</li> <li>- Fairly clear descriptions</li> <li>- Fairly clear sequence</li> </ul>	<ul style="list-style-type: none"> <li>- No organization</li> <li>- Descriptions not clear</li> <li>- No sequence</li> <li>- No effort</li> </ul>