



NOVA SOUTHEASTERN  
UNIVERSITY

College of Undergraduate Studies

## Tutoring and Testing Center

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### DIVISIBILITY RULES FOR FRACTIONS

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To reduce a fraction, find a number by which both the numerator and denominator can be divided.

Divisible evenly by	If	Example	Explanation
<b>2</b>	The number ends evenly.	1235 <u>6</u>	Ends in 6 (even)
<b>3</b>	The sum of its digits can be divided by 3	1236	$1+2+3+6= 12$ 12 can be divided evenly by 3
<b>4</b>	The last two digits can be divided by 4	12 <u>32</u>	32 can be divided evenly by 4
<b>5</b>	The number ends in 0 or 5	123 <u>5</u>	Ends in 5
<b>6</b>	The number can be divided by 2 and 3	1980	1980 can be divided evenly by 2 and 3; therefore, it is divisible by 6.
<b>9</b>	The sum of its digits can be divided by 9	3762	The sum of its digits is $3+7+6+2 = 18$ 18 can be divided evenly by 9
<b>10</b>	The number ends in 0	1098 <u>0</u>	Ends in 0

Always try dividing by numerator.

Example: In  $\frac{17}{51}$ , both numerator and denominator can be divided by 17.