MATH 1000

DIVISIBILITY RULES FOR FRACTIONS

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

Divisible evenly by	If	Example	Explanation
2	The number ends evenly.	12356	Ends in 6 (even)
3	The sum of its digits can be divided by 3	1236	1+2+3+6= 12 12 can be divided evenly by 3
4	The last two digits can be divided by 4	1232	32 can be divided evenly by 4
5	The number ends in 0 or 5	1235	Ends in 5
6	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.
9	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
10	The number ends in 0	10980	Ends in 0

Always <u>try</u> dividing by numerator.

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