Simplifying Fractions

Definition - Simplifying fractions means writing them using the smallest possible numbers.

Strategies (How do I do it?)

Strategy 1 - See if numerator and denominator both end in 0. If they do - divide by 10.

Strategy 2 - See if num. and denom. both end in an even number.

If they do - divide by 2.

Strategy 3 - See if num. and denom. end in 5 or 0. If they do - divide by 5.

Strategy 4 - Add up the digits in the number. If the answer is divisible by 3, then divide by 3.

$$51 \quad 5+1=6 \quad (540) \quad 5+4+0=9$$

$$31 \quad 5+40 \quad -\frac{3}{24}$$

Examples

$$\frac{3}{12} \cdot \frac{3}{3} = \frac{1}{4}$$

$$\frac{6}{14} \cdot \frac{2}{2} = \frac{3}{7}$$

$$\frac{10.52}{15.53}$$

$$\frac{H}{21} = \frac{7}{7} = \frac{2}{3}$$