

# How to Simplify Fractions

## Example #1

Simplify:  $\frac{8}{32}$

Step 1

Factors of 8: 1, 2, 4, 8

Factors of 32: 1, 2, 4, 8, 16, 32

Step 2

Step 3

$$\frac{8 \div 8}{32 \div 8} = \frac{1}{4}$$

## Example #2

Simplify:  $\frac{18}{27}$

Step 1

Factors of 18: 1, 2, 3, 6, 9, 18

Factors of 27: 1, 3, 9, 27

Step 2

Step 3

$$\frac{18 \div 9}{27 \div 9} = \frac{2}{3}$$

## Example #3

Simplify:  $\frac{66}{93}$

Step 1

Factors of 66: 1, 2, 3, 6, 11, 22, 33, 66

Factors of 93: 1, 3, 31, 93

Step 2

Step 3

$$\frac{66 \div 3}{93 \div 3} = \frac{22}{31}$$

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