Simplifying fractions

List all the factors that equal the numerator! (1, 2, 4, 8)

List all the factors that equal the denominator! (1, 2, 4, 8, 32)

Now, circle the greatest common factor!

Write down the common factors for the numerators and denominators below. Circle the greatest common factor for each fraction.

A. \[ \frac{6}{18} \qquad \frac{6}{24} \qquad \frac{9}{36} \]

B. \[ \frac{9}{81} \qquad \frac{8}{48} \qquad \frac{12}{36} \]

Example: \[ \frac{3}{6} = \frac{1}{2} \]

1st – Find the greatest common factor of the numerator and denominator.

2nd – Divide both the numerator and denominator by that number.

Congratulations! You’ve just simplified that fraction!

Simplify the fractions.

C. \[ \frac{4}{12} \qquad \frac{5}{25} \qquad \frac{7}{28} \qquad \frac{6}{48} \qquad \frac{8}{72} \]

D. \[ \frac{12}{24} \qquad \frac{14}{21} \qquad \frac{4}{32} \qquad \frac{7}{63} \qquad \frac{9}{36} \]

E. \[ \frac{3}{18} \qquad \frac{9}{27} \qquad \frac{6}{12} \qquad \frac{12}{48} \qquad \frac{9}{12} \]

F. \[ \frac{5}{20} \qquad \frac{8}{16} \qquad \frac{7}{21} \qquad \frac{16}{48} \qquad \frac{12}{18} \]