MULTIPLYING AND DIVIDING FRACTIONS

DO YOU HAVE MIXED NUMBERS?
CHANGE THEM TO IMPROPER FRACTIONS

TO MULTIPLY FRACTIONS

Cancel common factors

Multiply the numerators and denominators separately.

EXAMPLE:

$$2\frac{1}{6}\cdot\frac{3}{7}=\frac{13}{6}\cdot\frac{3}{7}=$$

$$\frac{13}{{}_{2}\cancel{6}}\cdot\frac{\cancel{3}^{1}}{7}=\frac{13\cdot 1}{2\cdot 7}=\frac{13}{14}$$

TO DIVIDE FRACTIONS

K – Keep the first
F – Flip the second
C – Change the sign to multiply

Cancel common factors

Multiply the numerators and denominators separately.

EXAMPLE:

$$-\frac{8}{15}\div-\frac{16}{25}=-\frac{8}{15}\cdot-\frac{25}{16}=$$

$$-\frac{{}^{1}\cancel{8}}{{}_{3}\cancel{15}}\cdot-\frac{\cancel{25}^{5}}{\cancel{16}_{2}}=\frac{1\cdot 5}{3\cdot 2}=\frac{5}{6}$$