

Name _____

Date _____ Period _____

Multiplying Fractions with Negatives

Multiplying Fraction Rules:

1. You don't need common denominators
2. You can't multiply mixed numbers or whole numbers
 - a. They must be turned into improper fractions
3. Multiply both numerators and denominators
4. You can cross simplify before you multiply to make the numbers smaller.

Follow integer multiplication rules (tic-tac-toe)

Solve. Make sure your answers are in simplest form.

1. $\frac{1}{3} \cdot \frac{-4}{5}$

$$\boxed{\frac{-4}{15}}$$

2. $-\frac{1}{8} \cdot 3\frac{1}{4}$

$$-\frac{1}{8} \cdot \frac{13}{4} = \boxed{\frac{-13}{32}}$$

3. $-2\frac{2}{5} \cdot -3\frac{1}{3}$

$$\frac{-12}{5} \cdot \frac{-10}{3} = \frac{8}{1} = 8$$

4. $-7 \cdot \frac{5}{8}$

$$-\frac{7}{1} \cdot \frac{5}{8} = \boxed{\frac{-35}{8} \text{ or } -4\frac{3}{8}}$$