

MAT 1275CO - Chapter 1.2 Problem Set

- Write the following improper fractions as mixed numbers.
(a) $\frac{39}{12}$ (b) $\frac{54}{7}$
- Write the following mixed numbers as improper fractions.
(a) $-2\frac{7}{9}$ (b) $11\frac{4}{5}$
- Find a fraction equivalent to $\frac{10}{12}$.
- Reduce.
(a) $\frac{8}{36}$ (b) $-\frac{15}{75}$
- Multiply. Express your final answer as a reduced proper or improper fraction NOT a mixed number.
(a) $(3\frac{2}{3}) \cdot (4\frac{1}{5})$ (b) $\frac{5}{6}(2\frac{3}{7})$ (c) $-\frac{11}{18} \times \frac{5}{2}$
- Divide. Express your final answer as a reduced proper or improper fraction NOT a mixed number.
(a) $\frac{4}{10} \div \frac{12}{5}$ (b) $(3\frac{1}{3}) \div (2\frac{3}{5})$ (c) $\frac{6}{8} \div (-\frac{9}{10})$
- Add. Express your final answer as a reduced proper or improper fraction NOT a mixed number.
(a) $\frac{10}{16} + \frac{4}{32}$ (b) $-\frac{3}{14} + \frac{15}{14}$ (c) $2\frac{6}{21} + 5\frac{3}{7}$
- Subtract. Express your final answer as a reduced proper or improper fraction NOT a mixed number.
(a) $\frac{5}{3} - \frac{17}{9}$ (b) $\frac{15}{4} - (-1\frac{3}{4})$ (c) $-3\frac{8}{30} - 2\frac{2}{5}$

Critical Thinking:

Jasmine, John, and Amber each ate some of their 3 candy bars and are comparing how much candy they have left. Jasmine has $\frac{3}{4}$ candy left. Amber had $\frac{2}{3}$ of her candy bar left. John won't say exactly how much he has left, he will only reveal that the amount of candy he has left is an improper fraction. Do you have enough information to say who has the most candy left over? If so, who has the most candy?