

GRADE 10 ESSENTIAL UNIT X – FRACTIONS SUBTRACTING MIXED NUMBERS

Name:_____ Date:

Subtracting mixed numbers is similar to adding except that sometimes instead of making an extra whole amount when two fraction parts are added, we need to borrow from a whole amount to subtract the fraction parts.

No borrow Subtraction (mixed numerals) Rename the numbers so the

$$3\frac{2}{3} \longrightarrow 3\frac{4}{6}$$

$$-1\frac{1}{6} \longrightarrow -1\frac{1}{6}$$

$$2^{3} \longrightarrow 3$$

fractions have the same denominator.

Subtract the fractions. Subtract the whole numbers. $2\frac{3}{6} = 2\frac{1}{2}$ Change to simplest form.

Write each answer in simplest form.

1.
$$7 \rightarrow 6 \%$$
4 4 4 % 3 % 5
$$\frac{-\frac{3}{4}}{6 \%} - \frac{3}{6 \%} + \frac{-\frac{1}{2}}{6 \%} - \frac{0}{3} \% - \frac{2}{3} \%$$

2.
$$3\frac{4}{5}$$
 $-1\frac{1}{2}$

$$5\frac{2}{3}$$
 $-3\frac{4}{9}$

$$6\frac{3}{4}$$

$$-5\frac{1}{8}$$

$$2\frac{2}{3}$$
 $-1\frac{1}{2}$



4.
$$10\frac{5}{6}$$
 $-7\frac{5}{12}$

$$8 - \frac{5}{8}$$

$$9\frac{5}{6}$$
 $-2\frac{1}{3}$

Rename the numbers so the fractions have the same denominator.

Rename $3\frac{3}{12}$ so you can subtract the fractions.

Rename $4\frac{5}{10}$ so you can subtract the fractions.

$$3\frac{1}{4} \longrightarrow 3\frac{3}{12} \longrightarrow 2\frac{15}{12} \qquad 3\frac{3}{12} = 2 + 1\frac{3}{12} \qquad 4\frac{1}{2} \longrightarrow 4\frac{5}{10} \longrightarrow 3\frac{15}{10} \qquad 4\frac{5}{10} = 3 + 1\frac{5}{10} = 3 + \frac{15}{10} = 3 + \frac{15}{10$$

Write each answer in simplest form.

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

2.
$$8\frac{3}{8}$$
 $5\frac{1}{4}$ $3\frac{7}{12}$ $4\frac{1}{8}$ $-1\frac{3}{4}$ $-\frac{3}{4}$ $-\frac{3}{4}$ $-\frac{3}{4}$ $-\frac{3}{8}$

See me if you want lots more practice questions. Make sure you know how to do fractions on a calculator too! Some calculators make it very easy!