SUBTRACTING FRACTIONS

Essential Question: How do you subtract fractions with unlike denominators? numerator $\frac{7}{12} - \frac{2}{12} = \frac{5}{12}$

To subtract fractions, the <u>denominators</u> must be the same. Once they are the <u>same</u>, subtract the <u>numerators</u> and put the difference over the <u>denominators</u>

Subtract the fractions. Write the answer in simplest form.

1)
$$\frac{2}{7} - \frac{1}{8}$$

$$2)\frac{15}{24}-\frac{7}{12}$$

3)
$$8\frac{5}{9} - 2\frac{1}{3}$$

$$\frac{2.8}{7.8} - \frac{1.7}{8.7}$$

$$\frac{15}{24} - \frac{7.2}{12}$$

$$\frac{85}{9} - 2\frac{1.3}{3.3}$$

$$\frac{1}{5} - \frac{1}{7.5}$$

$$\frac{15}{24} - \frac{7.2}{12^{2}}$$

$$\frac{85}{9} - 2\frac{1.3}{3.3}$$

$$\frac{1}{5} - \frac{1}{7.5}$$

$$\frac{7.8}{56} - \frac{8.7}{56} - \frac{9}{56}$$

$$\frac{\frac{16}{56} - \frac{1}{56} - \frac{9}{56}}{\frac{15}{56} - \frac{1}{56}} = \frac{\frac{2}{12}}{\frac{1}{24}} = \frac{\frac{1}{2}}{\frac{1}{24}} = \frac{\frac{3}{2}}{\frac{1}{24}} = \frac{\frac{3}$$

$$5.7 - 7.5$$

$$5\frac{7}{35} - 1\frac{5}{35} = 43$$

5)
$$\frac{4}{7} - \frac{1}{4}$$

$$6)4\frac{3}{4} - 2\frac{3}{10}$$

7)
$$6\frac{5}{7} - 2\frac{1}{3}$$
6 $\frac{5 \cdot 3}{7 \cdot 3}$ 2 $\frac{1 \cdot 7}{3 \cdot 7}$

ON YOUR OWN
$$5)\frac{4}{7} - \frac{1}{4}$$

$$6)4\frac{3}{4} - 2\frac{3}{10}$$

$$7)6\frac{5}{7} - 2\frac{1}{3}$$

$$8)10\frac{2}{3} - 2\frac{1}{4}$$

$$4\frac{3}{10}$$

$$\frac{5\cdot 3}{7\cdot 4} - \frac{1}{11}$$

$$\frac{5\cdot 3}{11}$$

$$\frac{5\cdot 3}$$

$$\frac{7.4 - \frac{1}{4.7}}{\frac{16}{28} - \frac{7}{28} = \frac{9}{28}}$$

$$4\frac{15}{20} - 2\frac{6}{20} - 2\frac{9}{2}$$

$$10\frac{8}{12} - 2\frac{3}{12}$$

You have $3\frac{3}{4}$ pounds of taffy. You eat $1\frac{1}{3}$ pound of taffy. How many pounds of taffy do you

have left?
$$\frac{3}{3} = \frac{3}{12} = \frac{1}{12} = \frac{3}{12} =$$

STEPS FOR SUBTRACTING FRACTIONS WITH UNLIKE DENOMINATORS

- 1) Find the Lowest Common Denominator (LCD) of the fractions. This is the same as the Least Common Multiple.
- 2) Rewrite fractions as equivalent fractions by multiplying the numerator and denominator of each fraction by a number so that they have the LCM as their new denominator.
- 3)Subtract the numerators and keep the denominator the same. If there are whole numbers, subtract them.
- 4) Simplify the fractions, if necessary, by dividing the numerator and denominator by the GCF.