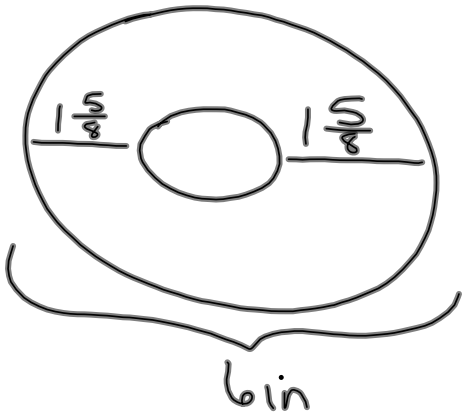
36.)



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

$$2\frac{10}{8} = 3\frac{1}{4}\text{in}$$

$$5\frac{4}{4} - 3\frac{1}{4} = 2\frac{3}{4}\text{in}$$

44.) $\frac{2,000,000 \text{ gal}}{1 \text{ day}} \cdot \frac{365 \text{ days}}{1 \text{ yr.}}$

$= \text{about } \frac{730,000,000 \text{ gal}}{1 \text{ year}}$

2-5 Adding and Subtracting Like fractions

- denominator stays the same
- add or subtract the numerators
- reduce or simplify

13) $\frac{2}{7} - \frac{6}{7} = \frac{2}{7} + \left(-\frac{6}{7}\right)$

$\frac{2}{7} - \frac{6}{7}$

$\frac{2-6}{7} = \frac{-4}{7}$

$\frac{2+(-6)}{7} = \frac{-4}{7}$

15) $\frac{1}{9} - \left(-\frac{4}{9}\right)$

$\frac{1}{9} + \frac{4}{9} = \frac{1+4}{9} = \frac{5}{9}$

Instead of subtracting ADD the OPPOSITE

Add Subtracting

If the signs are different then subtract.

If the signs are the same add them

$-2 + -4 = \boxed{-6}$

answer has same sign as the original problem.

21) $-2\frac{5}{11} - 7\frac{1}{11}$

$-9\frac{6}{11}$

$-2\frac{5}{11} + \left(-7\frac{1}{11}\right) = -9\ \frac{5+1}{11} = -9\frac{6}{11}$

$-\frac{27}{11} + \frac{-78}{11} = \frac{-105}{11} = -9\frac{6}{11}$

23 $5\frac{2}{9} - 2\frac{4}{9}$

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

$5\frac{2}{9} + \left(-2\frac{4}{9}\right)$

$\cancel{5}^{4}\ \frac{2}{9} + \frac{9}{9} = \frac{11}{9}$

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

$2\frac{7}{9}$

$\frac{47}{9} - \frac{22}{9} = \frac{25}{9}$

$2\frac{7}{9}$