

Reteaching Page

5.10 Solving Fraction Equations

The Steps:

1. Use inverse operations to isolate the variable.
2. Use substitution to check your work

$$n + 3\frac{1}{2} = 7\frac{2}{3}$$

$$5\frac{3}{8} = n - 2\frac{5}{6}$$

isolate the variable

get rid of $3\frac{1}{2}$ by subtracting

$$n = 7\frac{2}{3} - 3\frac{1}{2}$$

$$n = 4\frac{1}{6}$$

Substitute.

$$4\frac{1}{6} + 3\frac{1}{2} = 7\frac{2}{3}$$

$$7\frac{2}{3} = 7\frac{2}{3}$$

$$n = 4\frac{1}{6}$$

isolate the variable

get rid of $2\frac{5}{6}$ by adding

$$5\frac{3}{8} + 2\frac{5}{6} = n$$

$$8\frac{5}{24} = n$$

Substitute.

$$5\frac{3}{8} = 8\frac{5}{24} - 2\frac{5}{6}$$

$$5\frac{3}{8} = 5\frac{3}{8}$$

$$n = 8\frac{5}{24}$$

When you have to subtract a variable – use the fact family!

$$6\frac{3}{4} - n = 2\frac{1}{2}$$

You know:

$$A + B = C$$

$$B + A = C$$

$$C - B = A$$

$$C - A = B$$

This equation would be $C - B = A$ or $C - A = B \rightarrow$ either way you look at it $6\frac{3}{4}$ is the C term.

So you can switch this equation to its fact family member; $A + B = C$

$$2\frac{1}{2} + n = 6\frac{3}{4}$$

isolate the variable

get rid of $2\frac{1}{2}$ by subtracting

$$n = 6\frac{3}{4} - 2\frac{1}{2}$$

$$n = 4\frac{1}{4}$$

Substitute.

$$6\frac{3}{4} - 4\frac{1}{4} = 2\frac{1}{2}$$

$$2\frac{1}{2} = 2\frac{1}{2}$$