

Math 7H - Unit 2b

Day 2 - Add & Subtract One-Step Equations with Rational Numbers

Lesson Objectives:

- I can solve an one-step equation with rational numbers by adding & subtracting.
- I know how to show work when solving equations.

Steps for Solving Equations

Step #1 Get rid of the constant

Question: What happens if the **constant** is a fraction or decimal?

Nothing new. It's the same process!

Click above.

Solve each equation. Be sure to show ALL work.

1. $4.2 = t + 1.8$
 $\begin{array}{r} 4.2 \\ -1.8 \\ \hline 2.4 = t \end{array}$ Subtraction Prop(=)

2. $y - 5.7 = -4$
 $\begin{array}{r} y \\ +5.7 \\ \hline = 1.7 \end{array}$ Addition Prop(=)

3. $-9.3 = d - 3.4$
 $\begin{array}{r} -9.3 \\ +3.4 \\ \hline -5.9 = d \end{array}$ Addition Prop(=)

4. $4.58 + y = 2.5$
 $\begin{array}{r} 4.58 \\ -4.58 \\ \hline y = -2.08 \end{array}$ Subtraction Prop(=)

Solve each equation. Be sure to show ALL work.

5. $\frac{5}{16} = z - \frac{7}{16}$
 $\begin{array}{r} \frac{5}{16} \\ + \frac{7}{16} \\ \hline \frac{12}{16} = z \\ \frac{3}{4} = z \end{array}$ Addition Prop(=)

6. $-\frac{5}{11} + p = -\frac{2}{11}$
 $\begin{array}{r} -\frac{5}{11} \\ + \frac{5}{11} \\ \hline p = \frac{3}{11} \end{array}$ Addition Prop(=)

7. $\frac{1}{2} = q + \frac{2}{3}$
 $\begin{array}{r} \frac{3}{6} = q + \frac{4}{6} \\ -\frac{4}{6} \\ \hline -\frac{1}{6} = q \end{array}$

8. $p - 3\frac{1}{6} = -2\frac{1}{2}$
 $p - \frac{19}{6} = -\frac{5}{2}$
 $p - \frac{19}{6} = -\frac{15}{6}$
 $\begin{array}{r} p - \frac{19}{6} \\ + \frac{19}{6} \\ \hline p = \frac{4}{6} \\ p = \frac{2}{3} \end{array}$ Addition Prop(=)

Homework

Record & Practice Journal pg 41-44

* Individual Think Time *



What to do if you get stuck...

- Reread the problem. Did you write it down correctly?
- Reread your notes. Is there a problem similar that we did together in class?
- Find a problem similar in your book. Try this one to see if it helps.
- Skip the problem until the end of Individual Think Time. Then ask an "educated" question of a neighbor or Mrs. Call.

Today we're working by...

