

Math 60, Wednesday 4/23

Return tests and go over them

New material : Section 2.1

Handout - midterm self-assessment
due Friday 4/25

Bonus 1 due Monday 4/28

Substitute : Dan Castleton

~~Wednesday and~~

Friday and Monday

My notes will be posted online

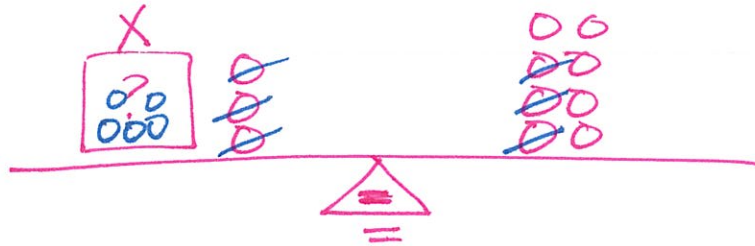
I will be available by email

Checkpoint #4 on Friday

Inservice day Tuesday 4/29

Chapter 2 — Solving Equations

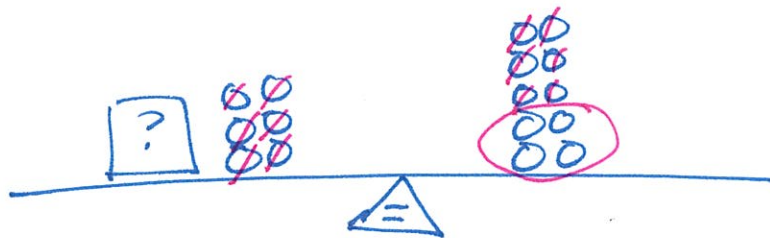
Section 2.1 - Addition Property of Equality



$$\begin{array}{r} X + 3 = 8 \\ -3 \quad -3 \\ \hline X = 5 \end{array}$$

{5} Solution set

{ }



$$\begin{array}{r} X + 6 = 10 \\ -6 \quad -6 \\ \hline X = 4 \end{array}$$

{4}

12. *isolate*

$$\begin{array}{r} \boxed{y} - 5 = -18 \\ +5 \quad +5 \\ \hline y = -13 \\ \{-13\} \end{array}$$

Check:

$$\begin{aligned} -13 - 5 &\stackrel{?}{=} -18 \\ -18 &= -18 \checkmark \end{aligned}$$

18.

$$\begin{array}{r} -21 = y - 4 \\ +4 \quad +4 \\ \hline -17 = y \\ y = -17 \\ \{-17\} \end{array}$$

24.

$$\begin{array}{r} x + \frac{7}{8} = \frac{9}{8} \\ -\frac{7}{8} \quad -\frac{7}{8} \\ \hline x = \frac{2}{8} \end{array}$$

check:

$$\begin{aligned} \frac{2}{8} + \frac{7}{8} &\stackrel{?}{=} \frac{9}{8} \\ \frac{9}{8} &= \frac{9}{8} \checkmark \end{aligned}$$

$\frac{1}{4}$
 $\{\frac{1}{4}\}$

Always reduce

34.

$$\begin{array}{r} r + \frac{3}{5} = -\frac{7}{10} \\ -\frac{3}{5} \quad -\frac{3 \cdot 2}{5 \cdot 2} \quad -\frac{6}{10} \\ \hline \end{array}$$

$$r = -\frac{13}{10}$$

check:

$$-\frac{13}{10} + \frac{3 \cdot 2}{5 \cdot 2} \stackrel{?}{=} -\frac{7}{10}$$

$$-\frac{13}{10} + \frac{6}{10} \stackrel{?}{=} -\frac{7}{10}$$

$$-\frac{7}{10} = -\frac{7}{10}$$

$$r + \frac{6}{10} = -\frac{7}{10}$$

$$-\frac{6}{10} \quad -\frac{6}{10}$$

$$r = -\frac{13}{10}$$

46. $\underline{-3x - 5} + \underline{4x} = 9$

simplify each side first

$$x - 5 = 9$$

$$+5 \quad +5$$

$$x = 14$$

$$\{14\}$$

check:

$$-3(14) - 5 + 4(14) \stackrel{?}{=} 9$$

$$\underline{-42 - 5 + 56} \stackrel{?}{=} 9$$

$$-47 + 56 \stackrel{?}{=} 9$$

$$9 = 9 \checkmark$$

Try: 42. $x + 10.6 = -9$

$$-10.6 \quad -10.6$$

$$x = -19.6 \quad \{-19.6\}$$

26. $t + \frac{2}{3} = -\frac{7}{6}$

$$-\frac{2}{3} \quad -\frac{2 \cdot 2}{3 \cdot 2} \quad -\frac{4}{6}$$

$$t = -\frac{11}{6} \left\{ -\frac{11}{6} \right\}$$

$$48. \underline{13} - \underline{3r} + \underline{2} + \underline{6r} - \underline{2r} - \underline{1} = 3 + \underline{2 \cdot 9}$$

$$r + 14 = 3 + 18$$

$$r + 14 = 21$$

$$\begin{array}{r} -14 \\ \hline r = 7 \end{array}$$

$\{7\}$

56.

$$X + \square = \triangle$$

$$- \square \quad - \square$$

$$\hline X = \triangle - \square$$

$\{\triangle - \square\}$