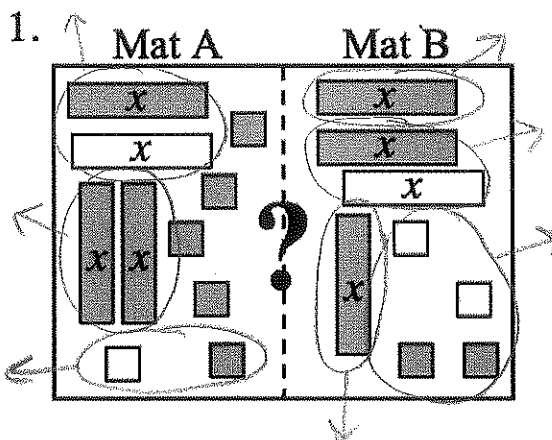


Quiz #2 Review

Use the expression mat below to decide which side is greater, if possible.



Which mat is greater? Mat A / Mat B / Undetermined

Explain your answer:

Mat A simplifies to 4 and Mat B to zero. Since $4 > 0$, then mat A is greater.

$$4 > 0$$

2) Solve and graph

a) $-2x + 7 \geq -9$

$$\begin{array}{r} -2x + 7 \geq -9 \\ -7 \quad -7 \\ \hline -2x \geq -16 \\ \div -2 \quad \div -2 \\ \hline x \leq 8 \end{array}$$

b) $5 - 3x + 4x < 10$

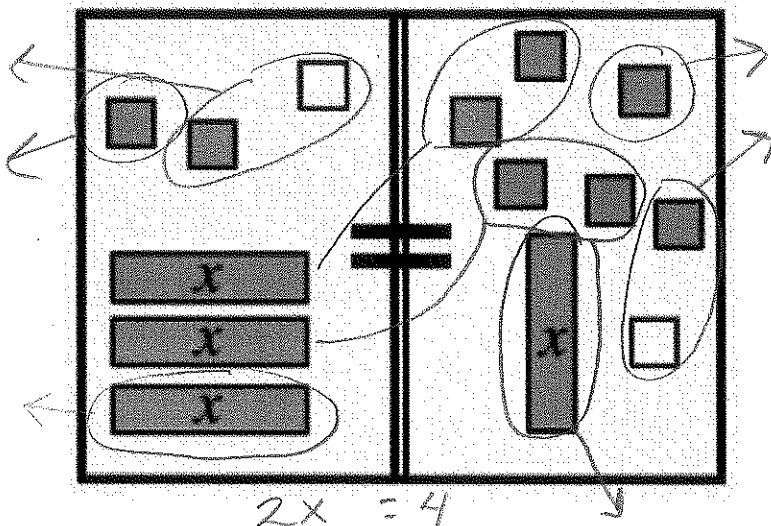
$$\begin{array}{r} 5 - 3x + 4x < 10 \\ -3x + 4x < 10 - 5 \\ \hline x < 5 \end{array}$$

c) $2(x+1) > 10$

$$\begin{array}{r} 2(x+1) > 10 \\ 2x + 2 > 10 \\ \hline 2x > 8 \\ \div 2 \quad \div 2 \\ \hline x > 4 \end{array}$$

3) Solve using the equation mat below.

Record your work by showing the simplifications on the mat.



Solution: 2

4) Solve and Check your solution

a. $-5x + 3 = 33$

$$\begin{array}{r} -5x + 3 = 33 \\ -3 \quad -3 \\ \hline -5x = 30 \\ \div -5 \quad \div -5 \\ \hline x = -6 \end{array}$$

$x = -6$

Check: $-5(-6) + 3 = 33$
 $30 + 3 = 33$

$33 = 33 \checkmark$