CH. 9 Inequalities Assessment

Name AreiD12 ACED1

AREIB3	AREID12	ACED1

Computation

4	3	2	1 4
Response has no recall errors, <i>minimal</i> procedural errors* and no conceptual errors**	Response has no recall errors, minimal procedural errors and minimal conceptual errors	Response has no recall errors, but has several procedural errors <u>OR</u> several conceptual errors	Recall errors exist <u>OR</u> Steps taken are not related to problem <u>OR</u> Response left blank

Written Responses

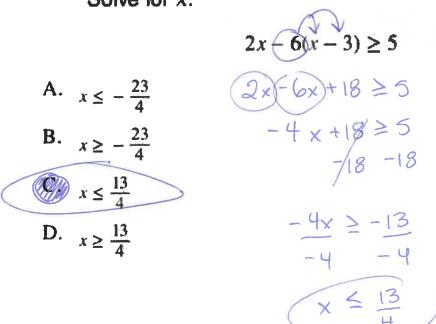
4	3.	.2	1.
sentence and uses appropriate academic vocab	in a complete sentence, and minimal errors	written in a complete	Concept of response is not related to problem <u>OR</u> Response is left blank

^{*}Procedural errors are mistakes made in the math

^{**}Conceptual errors are mistakes made in the steps one take

1. (AREIB3) Show your work neatly and circle the correct answer(s).

Solve for x.



2. (ARIEB3) Show your work neatly, box the resulting inequality and then draw its graph.

Solve the inequality for n. Show your work.

$$3(2-4n) \ge 6n - 2(5+3n)$$

$$6-12n \ge 6n - 10-6n$$

$$6-12n \ge -10$$

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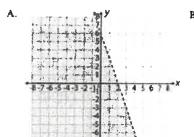
3. (AREID12) Explain your answer choice and cite two specific pieces of evidence in your explanation.

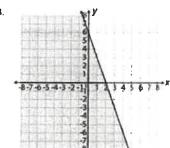
Which graph shows the solution to this inequality?

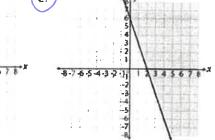
 $6x + 2y \ge 12$



 $6x + 2y \ge 12$ -6x -6x $2y \ge -6x + 12 \Rightarrow y \ge -3x + 6$







Graph C mothers the inequality (oxt 2y = 12 since it's symbol tells us the line should be solid Furthermore, the symbol tells us that the graph must be shaded above the line since its "greater.

4. (AREID12) Graph the solution set for the system of inequalities below.

than ar equal to

$$\begin{cases} 4x + 3y \le -6 \\ -2x + 3y \ge 12 \end{cases}$$

4x+3y = -6 -4x

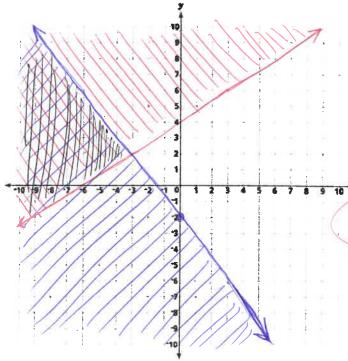
 $\frac{345-4x-6}{3}$

y = -4x-2)

Test (0,0)

$$0 \le -\frac{4}{3}(0) - 2$$

0 \le -2 Not



9== 3×+4

5. (ACED1) Write and solve an inequality that models this situation. Then, write your answer in a complete sentence in the space below.

A dance squad needs at least \$800 to buy new dance outfits.

• They have saved \$350 already. - starting value

• They are selling tickets to a dance performance for \$8 each.

They need to sell x tickets to have enough money to buy the new dance outfits.

X = number of tickets they need to Sell 8x+350 >800

 $\frac{8\times}{2} \stackrel{?}{=} \frac{450}{9} \Rightarrow \times \stackrel{?}{=} 56.25$ enough money to buy

They need to Sell at least 57 tickets to have new dance outfits.

IM₁

6. (ACED1) Write and solve an inequality that models this situation. Then, write your answer in a complete sentence in the space below.

Sam makes tote bags for a school fundraiser.

The fixed costs for making the bags is \$30

The cost of the materials for each bag is \$8.50.

Sam can spend less than a total of \$200 on the tote bags.

8.50t+ 30 < 200

t = # of tote lags Sem can make.

t < 20

Jen can make less than 20

tote bags after spending

less than \$200