

Name: _____

Date: _____

BLM 9-4

Section 9.2 Extra Practice

1. List 3 values that would make each inequality or combination of inequalities true.

a) $x \leq -4$

b) $x > -3$

c) $x > -4$ and $x < 3$

d) $x \geq -2$ and $x \leq 5$

2. Solve each inequality.

a) $x + 5 \leq 12$

b) $2 > x - 9$

c) $7.4 + x \geq 6.2$

d) $x - 4.2 < 3.5$



e) $4x \leq -16$

When multiplying or dividing by a negative, reverse the inequality sign.

f) $-1.3x > 16.9$

g) $\frac{x}{5} \leq -4$

h) $-\frac{1}{4}x \geq 3$

3. Verify if the specified solution is correct for each inequality.

a) $2x < -10; x > -5$

b) $-3x \leq -24; x \leq 8$

Check the solution.

Check $x > -5$. Let $x =$ _____

Check $x = 8$

$2 \times$ _____ < -10

_____ < -10

True or False.

Is $x > -5$ the solution?

Circle YES or NO.

Left Side	Right Side

Check $x < 8$. Let $x = 6$.

$-3 \times$ _____ ≤ -24

_____ ≤ -24

True or False.

Is $x \leq 8$ the solution? Circle YES or NO.



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c) $-9 \geq -\frac{1}{3}x; x \leq 3$

d) $x + 8 < -12; x < 20$

e) $2x \geq -16; x \geq -8$

f) $-7 + x > -2; x > -9$



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4. A balloon company guarantees that at least 18 of the balloons in each package are red. Fifteen percent of the balloons are red. How many balloons are in a package?

a) Write an inequality to model the situation.

Let n = the number of balloons in a package

Inequality: _____

b) Solve and verify the inequality.

Check the solution.

c) Represent your answer verbally and graphically.

Verbally: _____

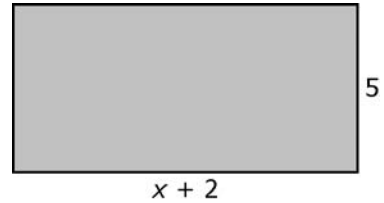
Graphically: 



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- 5. a)** Write an inequality to find the values of x that give the rectangle an area of no more than 25 square units.



- b)** Solve the inequality.

- c)** Are there values of x that would not be possible for the length of the rectangle? Circle YES or NO. Give 1 reason for your answer.

