MasterMath

Name _____

Date _____

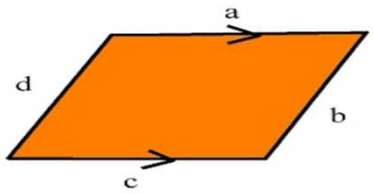
Solving Inequalities

1. Solve these Inequalities for x

Inequality	Solution
2x > 4	x > 2
3x + 6 < 12	x < 2
y > 5x	y/5 > x
-2x > 6	x < -3
6 - x > 3y	x < 6 - 3y
6x < 3y	x < 1/2 y
8y > -4x	-2y < x
6y < -2x + 6	3 - 3y > x
54x > 18	x > 1/3
2(x + 3) < 12	x < 3
y + 3 > 6 - x	3 - y < x
-6x > 6y	x < -y

2. Sides b and d are equal. Write and inequality, and solve for Side "b" such that the perimeter is less than 32".

Inequality	Solution
6 + b + 6 + b < 32	b < 10

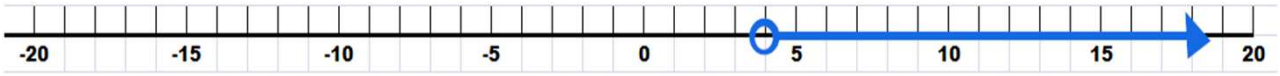


Perimeter = a + b + c + d

a = c = 6"

3. Solve the Inequality and graph the solution: 2x > 8

Solution
x > 4



4. You have $265 in your bank account. Write and solve an inequality that represents how many $20 bills you could remove from your bank account.

Inequality	Solution
20x ≤ 265	x ≤ 13

5. Your lemonade stand sells lemonade for $4 per glass. Write and solve an equation that represents how many glasses of lemonade you need to sell to make at least $60.

Inequality	Solution
4x ≥ 60	x ≥ 15