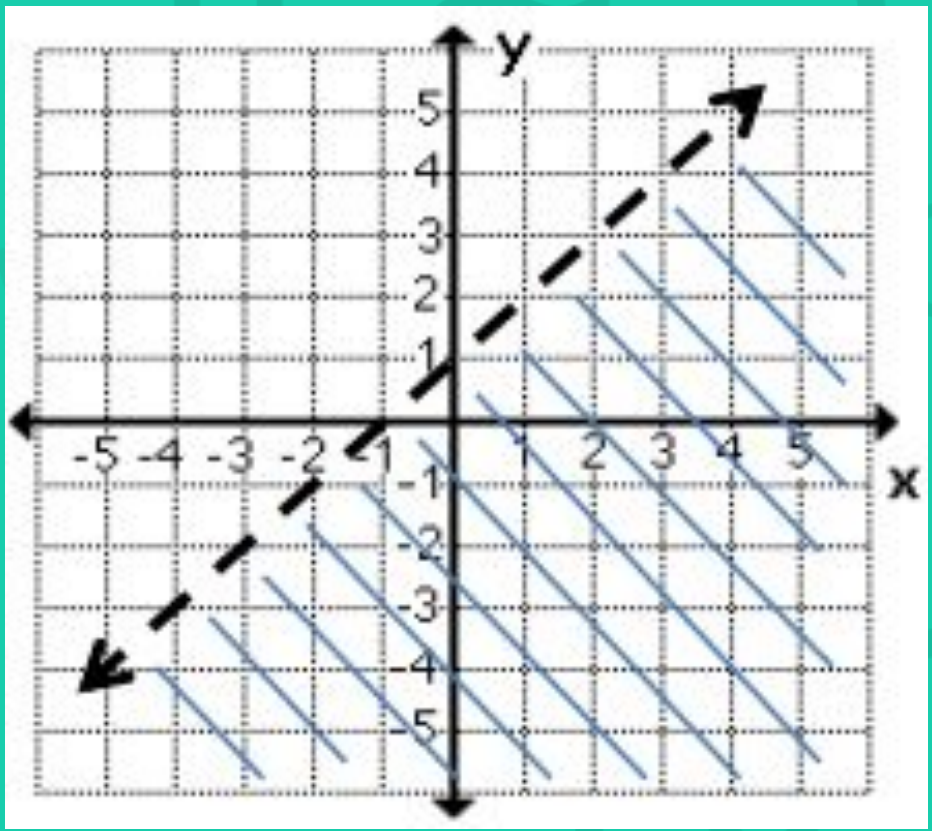
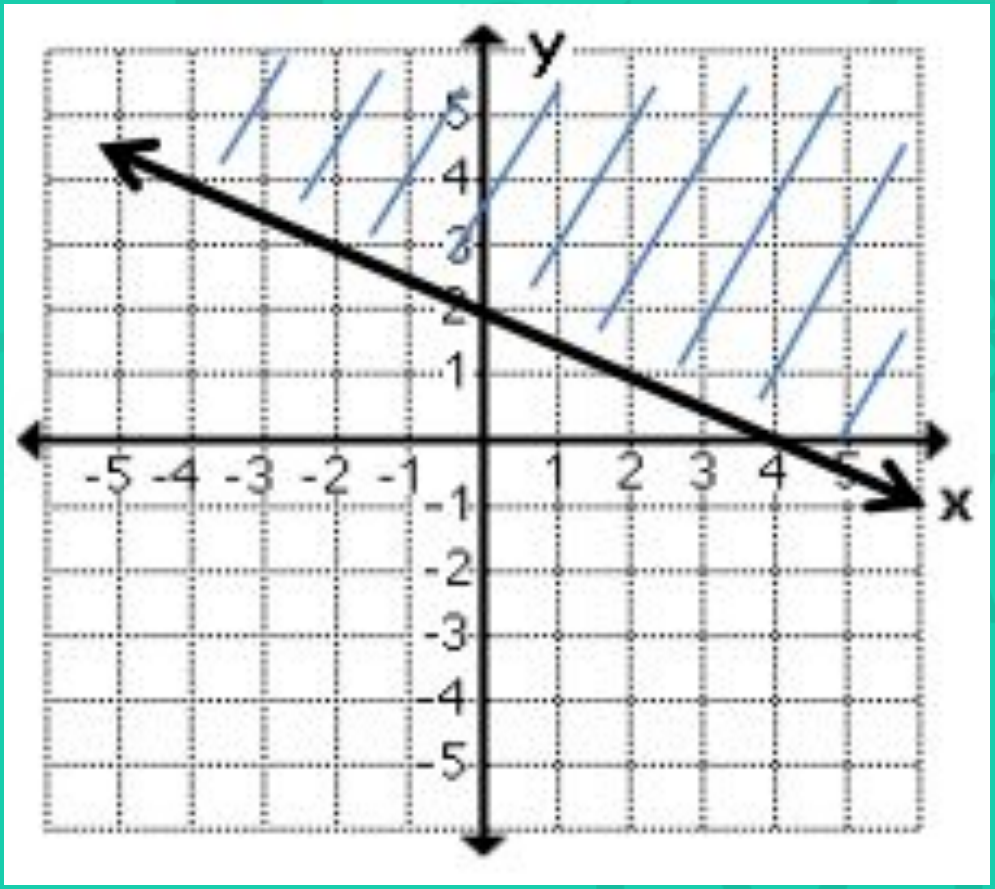
WRITING LINEAR INEQUALITIES

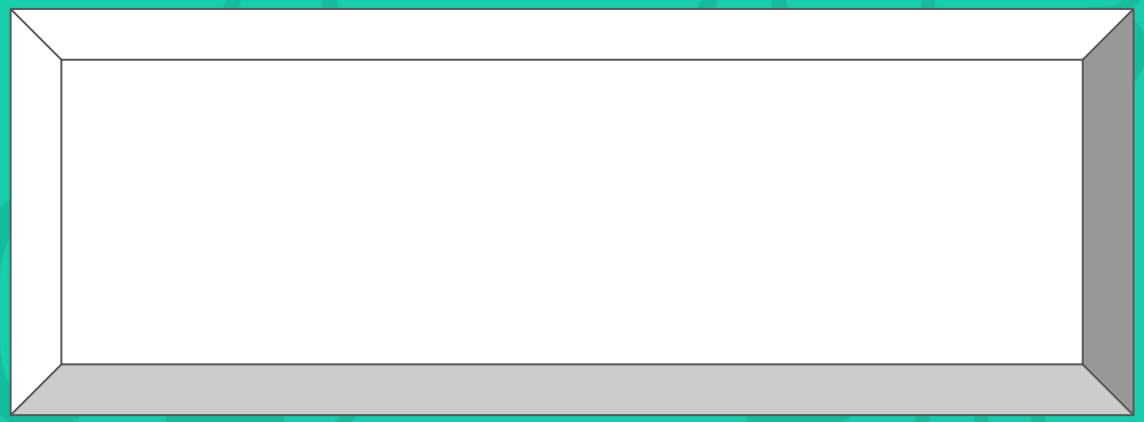
① Write the inequality represented by the graph below.



② Write the inequality represented by the graph below.



③ Simone needs notebooks and pencils for school. Notebooks are $1.25 each and packages of pencils cost $2.75. If Simone has $12 to spend, write an inequality to represent all possible combinations of notebooks and packages of pencils that she can afford.



4 Place an inequality and its matching word problem in the table to the right.

$95+4x<40+5x$

K

$40+5x \geq 95-4x$

X

$95-4x<40+5x$

B

1. Bruno Mars has $95 and is spending $4 per day. Rhianna has $40 and is earning $5 per day. At how many days will Rihanna have as much as or more than Bruno Mars?	
2. A rubber tree is 95 inches tall and growing at a rate of 4 inches per year. A cactus is 40 inches tall and growing at a rate of 5 inches per year. After how many years will the rubber tree be shorter than the cactus?	
3. A fish tank holds 95 gallons of water and is losing water at a rate of 4 gallons per day. A 2nd fish tank contains 40 gallons of water and is having 5 gallons added per day. After how many days will the 1st fish tank have less water than the 2nd?	