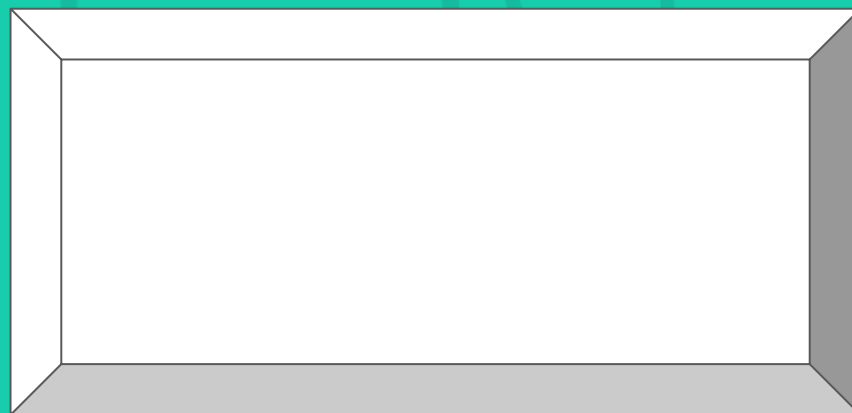
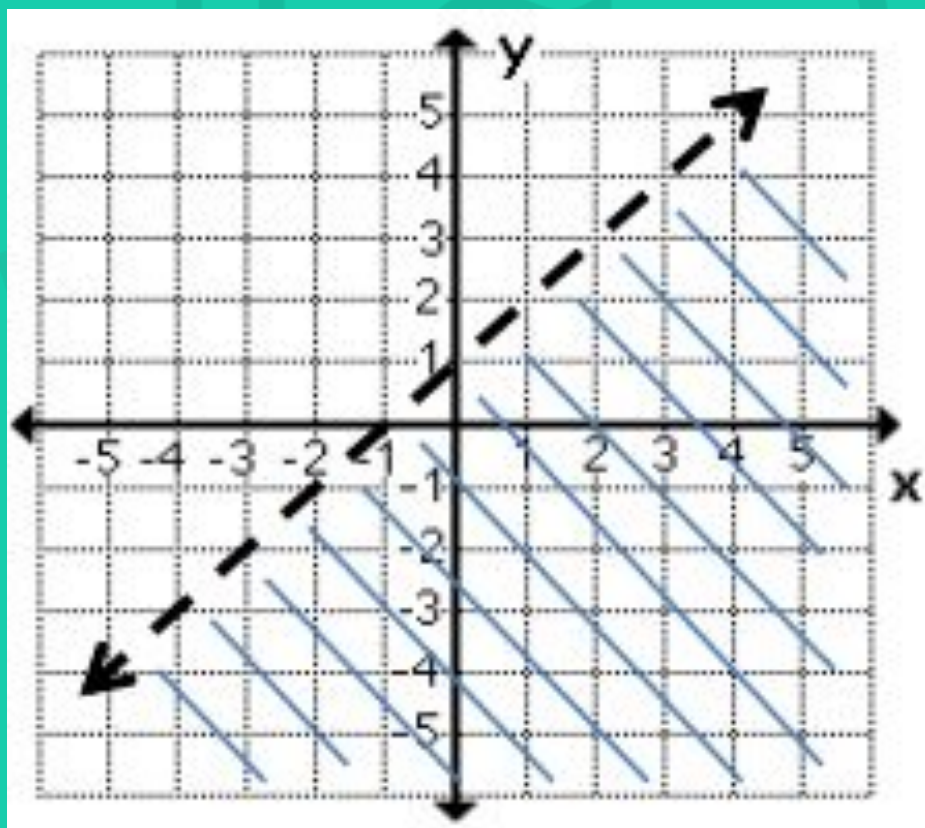
The background is a solid teal color. It is decorated with various mathematical symbols and expressions in a lighter teal or white color, including numbers like '2', '3', '0.999...', '5', '10', and '100', as well as mathematical operators like '>', '+', '-', 'x', '=', and '1/2'. A large, white, cloud-like shape with a black outline is centered on the page. Inside this cloud, the text 'WRITING LINEAR INEQUALITIES' is written in a bold, black, sans-serif font, slanted upwards from left to right.

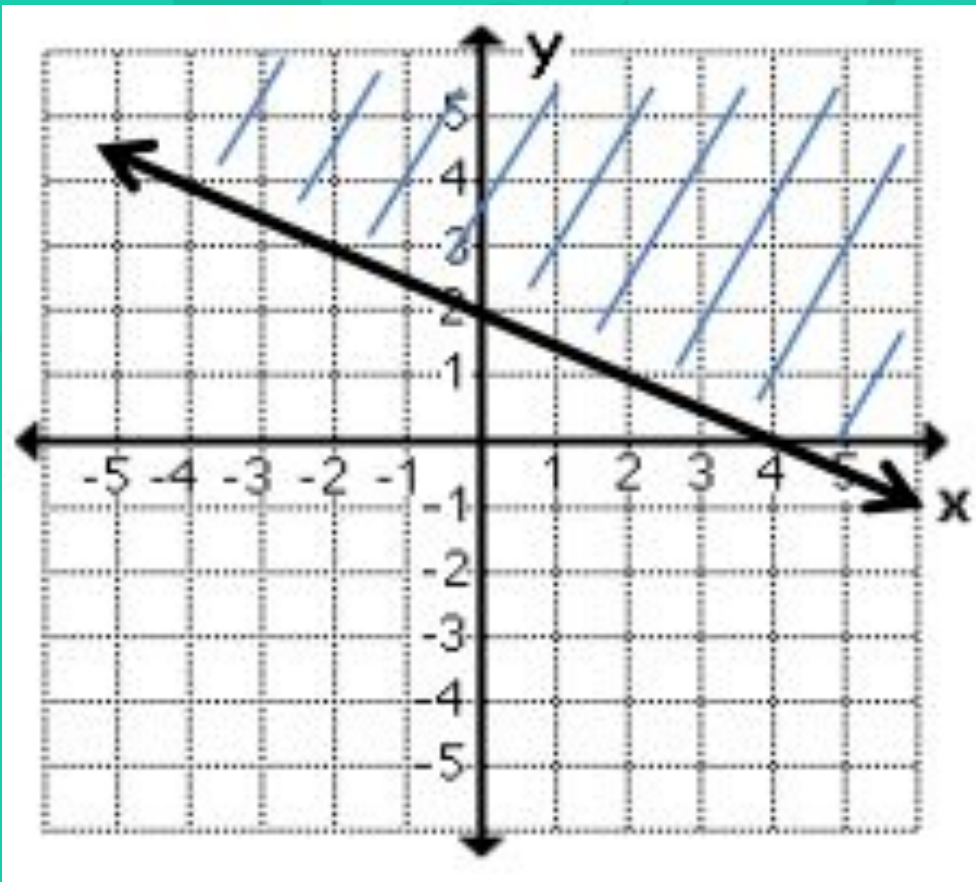
# **WRITING LINEAR INEQUALITIES**

①

Write the inequality represented by the graph below.

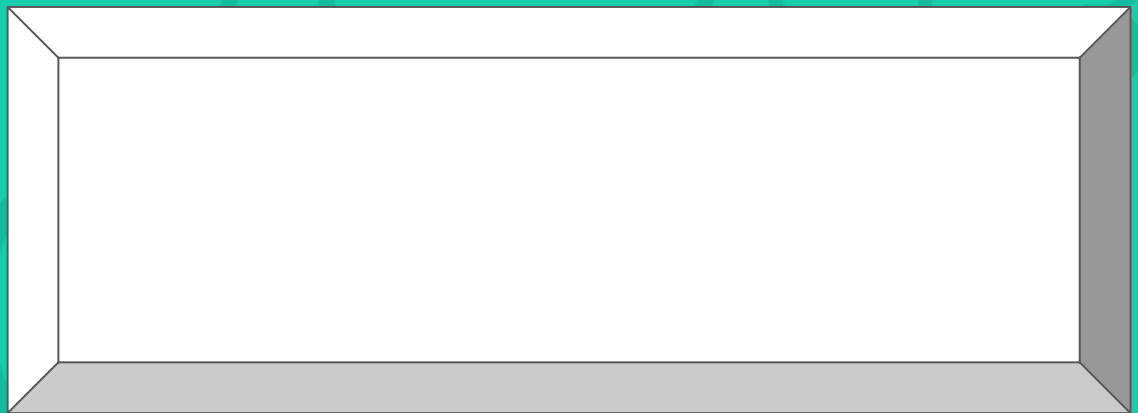


② Write the inequality represented by the graph below.



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?