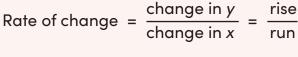
## RATE OF CHANGE: GRAPHS

The graph of a linear function is a straight line with a constant rate of change. You can find the rate of change of a linear function, or the slope, using this formula:

Rate of change = 
$$\frac{\text{change in } y}{\text{change in } x} = \frac{\text{rise}}{\text{run}}$$



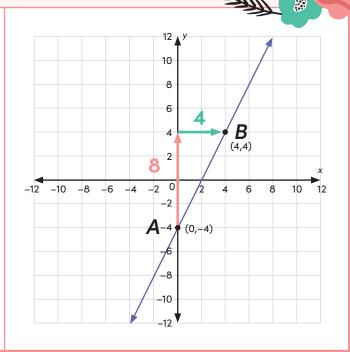
To find the rate of change on this graph, pick two points on the line that are easy to identify.

A is at 
$$(0, -4)$$
. B is at  $(4, 4)$ .

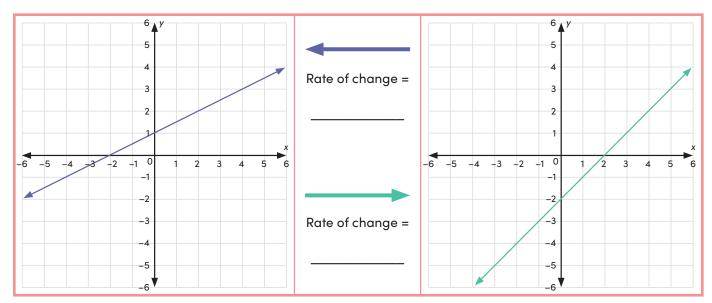
To move from point A to point B, first find the rise. Since the y-axis has a scale of 2, move up four increments of 2 to get a rise of 8. Since the x-axis has a scale of 2, move right two increments of 2 to get a run of 4.

Write the rate of change. Make sure to simplify your answer.

Rate of change = 
$$\frac{\text{rise}}{\text{run}} = \frac{8}{4} = 2$$



Try it yourself! Find the rate of change of each linear function below. Then circle the greater rate of change in each row.



## RATE OF CHANGE: GRAPHS

Keep going! Find the rate of change of each linear function below. Then circle the greater rate of change in each row.

