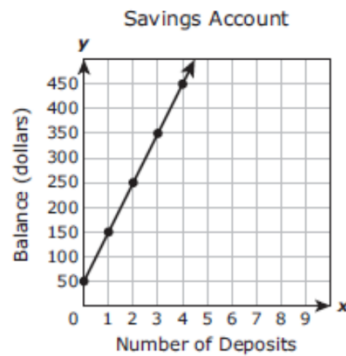**LEARNING TARGET:** Use multiple representations to display linear rate of change.

SUCCESS CRITERIA:

➤ 1. Analyze a linear function graph.

➤ 2. Complete a table of a linear function.

➤ 3. Calculate the rate of change from a linear function.

➤ 4. Explain the meaning of the rate of change from a linear function.

Use the Graph

A savings account balance can be modeled by the graph of the linear function shown on the grid.

Savings Account

Balance (dollars): 50, 100, 150, 200, 250, 300, 350, 400, 450

Number of Deposits: 0 1 2 3 4 5 6 7 8 9

Fill in the table with variable labels (words and/or units) and with 4 points

X (	)				
Y (	)				

MULTIPLE REPRESENTATIONS OF LINEAR RATE OF CHANGE

Calculate the Rate of Change

Describe in words what the rate of change *means*

Use the sentence stem, "The savings account grows by…"

STOP

Use the graph

The graph shows the linear relationship between the maximum area in square feet that can be painted and the number of gallons of paint used.
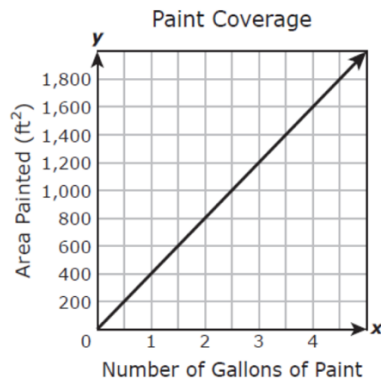
Paint Coverage

Area Painted (ft²)

1,800
1,600
1,400
1,200
1,000
800
600
400
200

0   1   2   3   4

Number of Gallons of Paint

Fill in the table with variable labels (words and/or units) and with 4 points

X (	)				
Y (	)				

MULTIPLE REPRESENTATIONS OF LINEAR RATE OF CHANGE

Describe in words what the rate of change *means*

Calculate the Rate of Change

STOP

Use the graph

The graph shows the height of an airplane as it descends to land.

Altitude (ft) vs. Time (min)

Fill in the table with variable labels (words and/or units) and with 4 points

X ( )				
Y ( )				

Calculate the Rate of Change
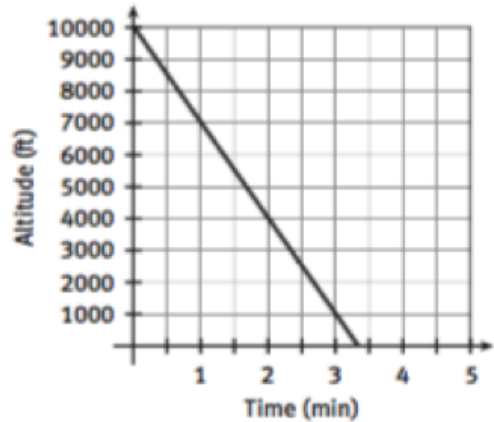
Describe in words what the average rate of change *means*

MULTIPLE REPRESENTATIONS OF LINEAR RATE OF CHANGE

STOP

CHALLENGE

Use the graph
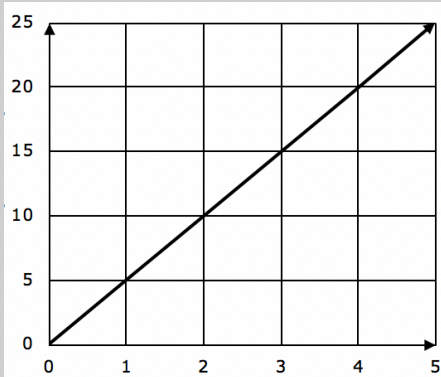
Fill in the table with variable labels (you will create the words and/or units) and with 4 points

X (	)			
Y (	)			

MULTIPLE REPRESENTATIONS OF LINEAR RATE OF CHANGE

Calculate the Rate of Change

Describe in words what the average rate of change *means in your scenario*

Given the learning target below, use the check boxes to check off the success criteria you feel confident about and place an X in the one(s) you still need more practice on.

🎯 **LEARNING TARGET:** Use multiple representations to display linear rate of change.

SUCCESS CRITERIA:

☐ ⟫———➤ 1. Analyze a linear function graph.

☐ ⟫———➤ 2. Complete a table of a linear function.

☐ ⟫———➤ 3. Calculate the rate of change from a linear function.

☐ ⟫———➤ 4. Explain the meaning of the rate of change from a linear function.