

Real Life Functions

Situation

The number of packages of limes and lemons you can buy with \$16 is represented by the equation $4x+2y=16$. Where x represents limes and y represents lemons.

Represent

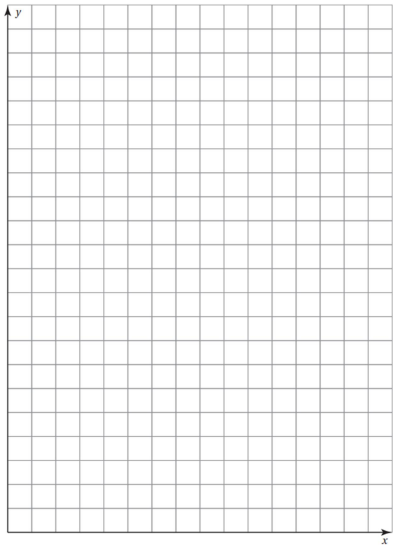
Interpret

Table

What is the minimum number of packages you can buy?

What is the maximum number of packages you can buy?

Graph



Does this function have a slope? If so what is it?

What does the slope mean?

What costs more limes or lemons?

Linear or Nonlinear?

Justify.

Rewrite the equation solved for y .



Real Life Functions

Situation

The table shows the value of a motorcycle t years after it is purchased.

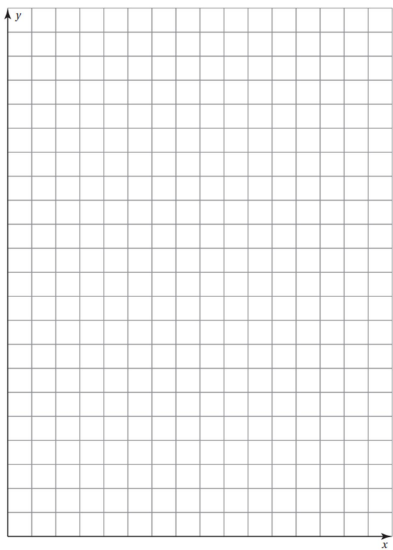
Represent

Interpret

Table

t	1	2	3	4
Value	\$15,360	\$11,520	\$8640	\$6480

Graph



Linear or Nonlinear?

Justify.

If linear, write an equation.

Approximately how much was the bike worth when it was bought?

Does this function have a slope? If so what is it?

What does the slope mean?

Approximately what is the bike worth at year 5?



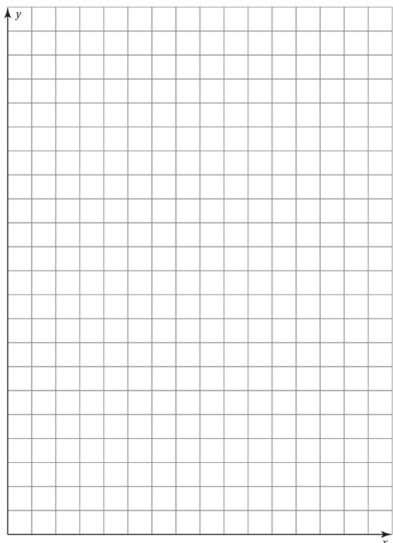

Real Life Functions

Situation

A group of friends are going bowling. Lane rental is \$20 and individual equipment rental is \$6.50

Represent

Interpret

Table						What does the y-intercept represent?	
Number of Bowlers (x)	0						Does this function have a slope? If so what is it?
Total Cost (y)	\$20						
Graph						What does the slope mean?	
						What will it cost for 8 people to bowl?	
Linear or Nonlinear?							
Justify.							
If linear, write an equation.							

Real Life Functions

Situation

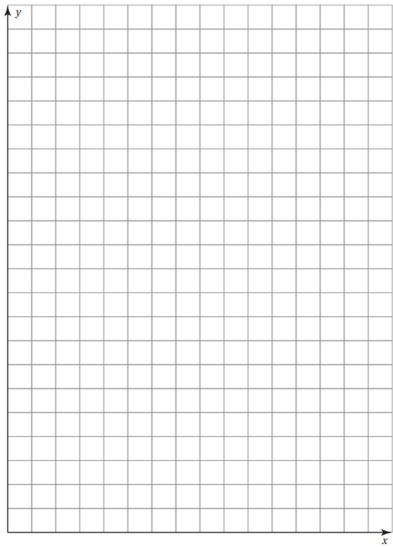
A ball is dropped from 16 feet. Each bounce is $\frac{1}{2}$ of its previous height.

Represent

Interpret

Table

Graph



Linear or Nonlinear?

Justify.

If linear, write an equation.

What is the y-intercept?

What does the y-intercept represent?

Does this function have a slope? If so what is it?

What does the slope mean?

How high does the ball go after 4 bounces?

