MathFLIX CHALLENGE

Functions: Application

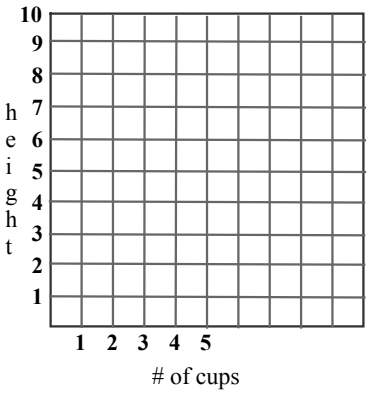
Congratulations! You've just been given a job as a package designer for stackable items like paper cups, bowls, plates, chairs, etc. Following the steps below will make your new job easier.

Order #1

When you get an order, ***you should begin by***:

- measuring several cups
- making a table
- graphing the data
- creating an equation

(x) # of cups	*(y)* height of cups-cm	
1	5	
2	7	2
3	9	2
4		



Equation: height = # cups(2cm) + 3cm

Then you should create a formula *to calculate the cost of packages that contain different numbers of cups. A table will help you organize the cost data which should include:*

- $1.00 for top of box
- $1.00 for bottom of box
- $0.02/cm for height

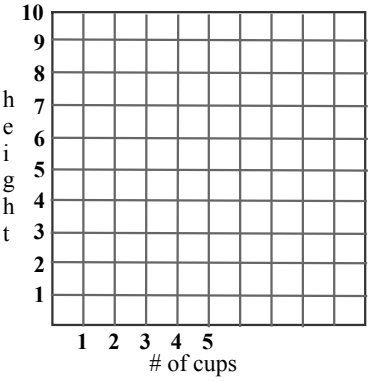
# of cups	height-cm	cost formula height($.02) + $2.00	Total $ of package
1	5	5(.02) + 2.00	$2.10
2	7	7(.02) + 2.00	
3			
4			
5			

Find the cost of a package for 50 cups.

Order #2

(x) # of cups	*(y)* height of cups-cm	
1	8	
2	10	2
3	12	2
		2

Equation ?



# of cups	height-cm	cost formula height($.02) + $2.00	Total $ of package

Order #3

(x) # of cups	*(y)* height of cups-mc	
1	5	
2	8	3
3	11	3

Equation ?