

# ALGEBRA

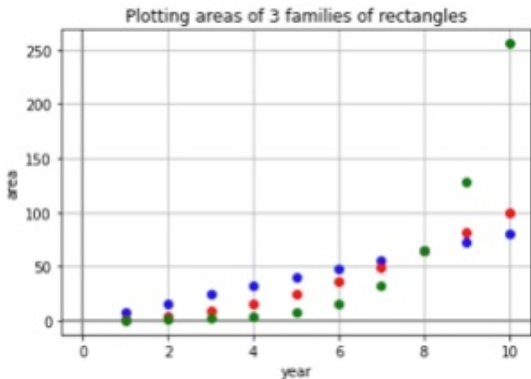
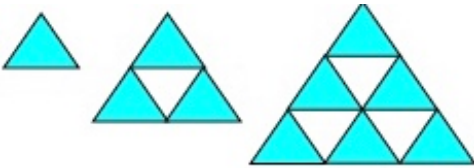
Grades 6-10

The image shows a Scratch script on the left and two coordinate plane graphs on the right. The script starts with a 'when clicked' event, followed by 'erase all', and a 'forever' loop. Inside the loop, it sets 'x' to a random number between -240 and 240, and 'y' to a random number between -180 and 180. It then checks if  $x + y = 100$ . If true, it goes to the coordinates (x, y) and stamps. The first graph shows a blue line on a coordinate plane with the equation  $y = -x + 100$ . The second graph shows a scatter plot of many small, multi-colored dots, with a blue line overlaid that represents the equation  $x + y = 100$ .

```

1 for x in range (1,11):
2   if x > 5:
3     print (x)

```



Low floor, high ceiling  
 Conceptual focus  
 Historical contexts  
 Tell a math story  
 + Coding extensions

George Gadanidis, 2022

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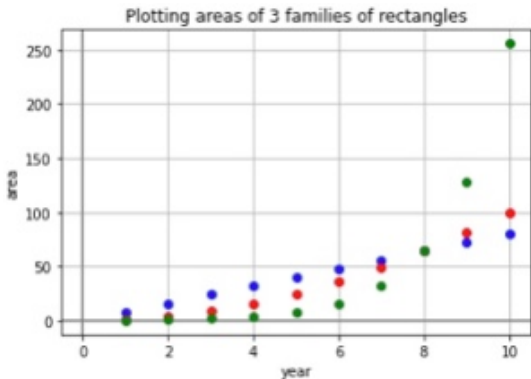
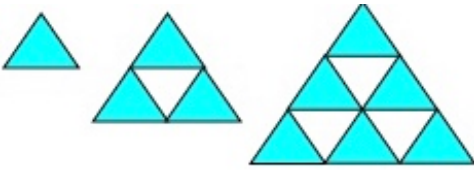
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