

Algebra versus the Cockroaches

- The program has seven levels and a bonus round
- You cannot move to the next round until you have five correct answers for the current round
 1. y-intercept only
 2. positive slope no y-intercept ($b = 0$)
 3. positive slope (whole numbers) with y-intercept
 4. positive slope (fractions) with y-intercept
 5. negative slope (whole numbers) with y-intercept
 6. negative slope (whole numbers and fractions) with y-intercept
 7. Mixture of levels 2-6
 8. Bonus round – like level seven but the time for answers is shorter
- The longer you take finding the equation of the line, the more cockroaches run on the line
- If 16 cockroaches run on the line the cockroaches win

Instructions:

Go to the game website:

http://hotmath.com/hotmath_help/games/kp/kp_hotmath_sound.swf

1. Read the instructions first!
2. Choose your weapon
3. Start a new game for each level
4. When the cockroaches have beaten you (or you have beaten the cockroaches), click on REPORT, enter your full name, and print a copy of the report
5. Play for a minimum of 30 minutes
6. Turn in the report with the highest round in for a grade

Remember:

- The Slope-Intercept form of a line is: $y = mx + b$
where:
 - m is the slope
 - b is the y-intercept
- The **y-intercept** is where the line crosses the y-axis
- The **slope** is $\frac{\text{rise}}{\text{run}}$

***Do not go to any other website or game!!!!**