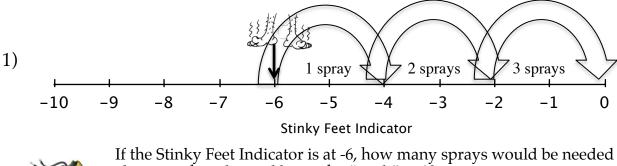
Stinky Feet II – New and Improved!



As Head Researcher at Dr. Smarts' company of odor eliminating products you have developed a "new and improved" MATH PRO ultra-strength formula for eliminating stink in shoes! The new formula requires fewer sprays to eliminate odor in shoes, but you need to confirm your hypothesis that one spray can now move the "Stinky Feet" indicator two units towards zero. For example, if the "Stinky Feet" indicator is at -10 and one spray is sprayed in to the shoe it will *eliminate -2* odor, moving the "Stinky Feet" indicator to -8.

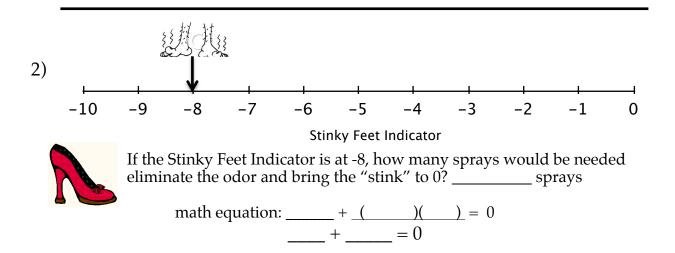
Based upon the shoes below, how many sprays would you spray in each shoe? Draw arrows, showing the movement of each spray, and fill in a "math equation" below each problem.

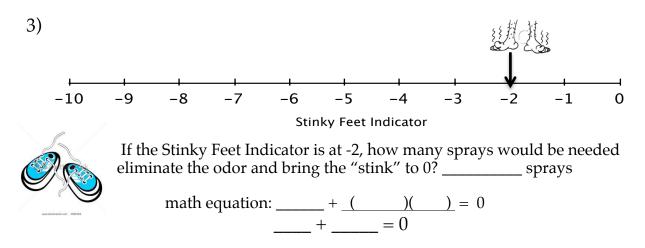




eliminate the odor and bring the "stink" to 0? ______ sprays

math equation: -6 + (3 sprays)(2 units) = 0-6 + 6 = 0





4) Record your results from 1-3 in the table.

	Initial "Stinky Foot" Indicator	Number of sprays x two units per spray	Math equation:
#1	-6	3 sprays x 2 units = +6	-6 + 6 = 0
#2	-8		
#3	-2		

5) If the Stinky Feet Indicator indicated a foot smell of -4, how many sprays would be needed to eliminate the odor? To eliminate -4, ______ sprays would be needed because ______.

6) In a later test, another formula produced results that showed that for 1 spray the "stink" was reduced by 3 units, moving the Stinky Feet indicator 3 units towards 0.

a) If the Stinky Feet indicator was at -9, how many sprays would it take to eliminate the odor? math equation: (-)(-) = 0

b) If the Stinky Feet indicator was at -6, how many sprays would it take to eliminate the odor? math equation:
$$+(())() = 0$$

Congratulations, your research project was a success! Your production of an improved Stinky Feet Odor Eliminator has earned a promotion to Vice President at Dr. Smarts' company!!