

RATIONAL EXPRESSIONS AND FUNCTIONS

PROBLEM 4: SEESAW

At recess Johnny and his friends like to play on the seesaw. They like to take turns, and one person always gets to stay on the seesaw for the entire recess. Today is Johnny's turn to stay on for the entire recess. Johnny weighs 75 pounds and always sits 5 feet from the center of the seesaw. Assuming they keep the seesaw balanced, how much does each of his friends weigh if they sit 3 feet from the center, 3.5 feet from the center, 4 feet from the center, 4.5 feet from the center, 5 feet from the center, and 6 feet from the center, respectively?

Distance from the center of the see-saw	Weight
3 feet	
3.5 feet	
4 feet	
4.5 feet	
5 feet	
6 feet	

EXTENSION

Could someone who weighs 130 pounds go on the seesaw with Johnny if Johnny has to stay five feet from the center? Explain your reasoning.