

Hickam Proof 6

Name _____

Consider a house that is 28 feet wide, 36 feet long, and 24 feet tall. This house has 5 windows on the front with each window being 3 feet wide by 6 feet tall. On the back of the house, there are 3 windows with each being 6 feet wide by 5 feet tall. There is one window on one of the sides of the house which is 3 feet wide by 5 feet tall. The other side has 4 windows with each being 3 feet wide by 5 feet tall. Finally, there is a front door which is 3 feet wide and 7 feet tall. You have been assigned the wonderful chore of painting this house this summer. Assume that the house is flat and that it will only need one coat of paint. If a gallon of paint will cover 400 square feet, how many gallons will you need to paint this house? Explain your reasoning clearly and with numbers to back up your claims.

Yes, this problem comes from my real life experience of painting my house in Savannah, many years ago.