WHOLE-BUILDING VENTILATION

The American Society of Heating, Air-conditioning and Refrigeration Engineers (ASHRAE) provides ventilation standards for building codes. ASHRAE Standard 62.2 is most common for residential structures. Use the following formula to solve the problems below. Round all answers to the nearest hundredth.
VENTILATION (CFM) = sq. ft. / 100 + ((# of BR + 1) x 7.5) (BR = Bedrooms, CFM = Cubic Feet per Minute)

SAMPLE:
What is the proper ventilation in CFM for a 5-bedroom home that is 2,900 square feet?
X = 2,900/100 + ((5 + 1) x 7.5)
X = 74 CFM

1. What is the proper ventilation in CFM for a 4-bedroom home that is 3,200 square feet?

2. What is the proper ventilation in CFM for a 3-bedroom home that is 2,000 square feet?

3. How many bedrooms are likely if a home has a ventilation rate of 41 CFM and is 1,100 square feet?

4. How many bedrooms are likely if a home has a ventilation rate of 30.50 CFM and is 800 square feet?

5. What is the likely square footage of a 5-bedroom home with a ventilation rate of 87 CFM?