$$2000 \text{hectares} \cdot \frac{4.5 \cdot 10^7 \text{termites}}{1000 \text{hectare}} \cdot \frac{70 \text{kg CH4 /year}}{1000 \text{termites}} = 6.3 \cdot 10^9 \text{kg CH4 /year}$$

$$\frac{0.09}{0.27} \cdot 6.3 \cdot 10^9 \text{kg CH4/year} = 2.1 \cdot 10^9 \text{kg CH4/year}$$