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a.) From the formula we have that if the surface area is 60 m^2 then the number of bat species is given by:

$$S = .7 \cdot (60)^3$$

$$\Rightarrow S \approx 2.39$$

Thus there are between 2 and 3 species of bats.

b.) Since there are 4 species of bats it follows from the formula that $4 = .7 \cdot A^3$. Solving for A we have that:

$$\frac{4}{.7} = A^3$$

$$\Rightarrow \left(\frac{4}{.7}\right)^{1/3} = A$$

Therefore, the surface area is given by:

$$A \approx 333.52 \text{ m}^2$$