21st June

Arrange in descending order

738000  9.4 \times 10^3  20 \times 5^8

Sophie selects a card at random, then replaces it. She then selects another.

What is the probability she selects two black cards?

Shown is a square-based pyramid with volume 270\text{cm}^3

Find the length of the side marked $x$.

Simplify $\sqrt{80}$

Find $y$