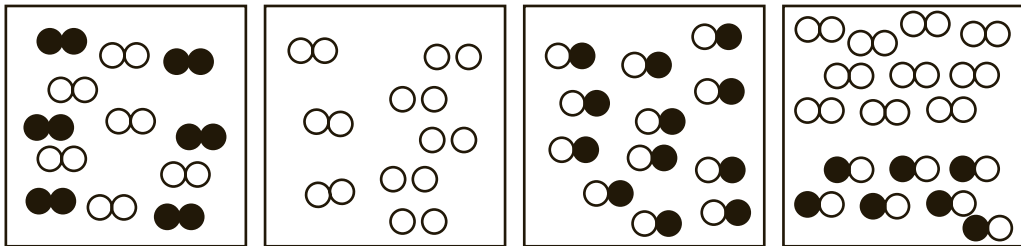23 Particle models of four different types of matter are shown in the diagram below.

Model 1   Model 2   Model 3   Model 4

a. Identify which of the four models best represents a pure compound. Explain your answer **and** give a specific example of a compound.

b. Identify which of the four models best represents a homogeneous mixture. Explain your answer **and** give a specific example of a homogeneous mixture.

c. Describe **one** method that could be used to separate a homogeneous mixture.