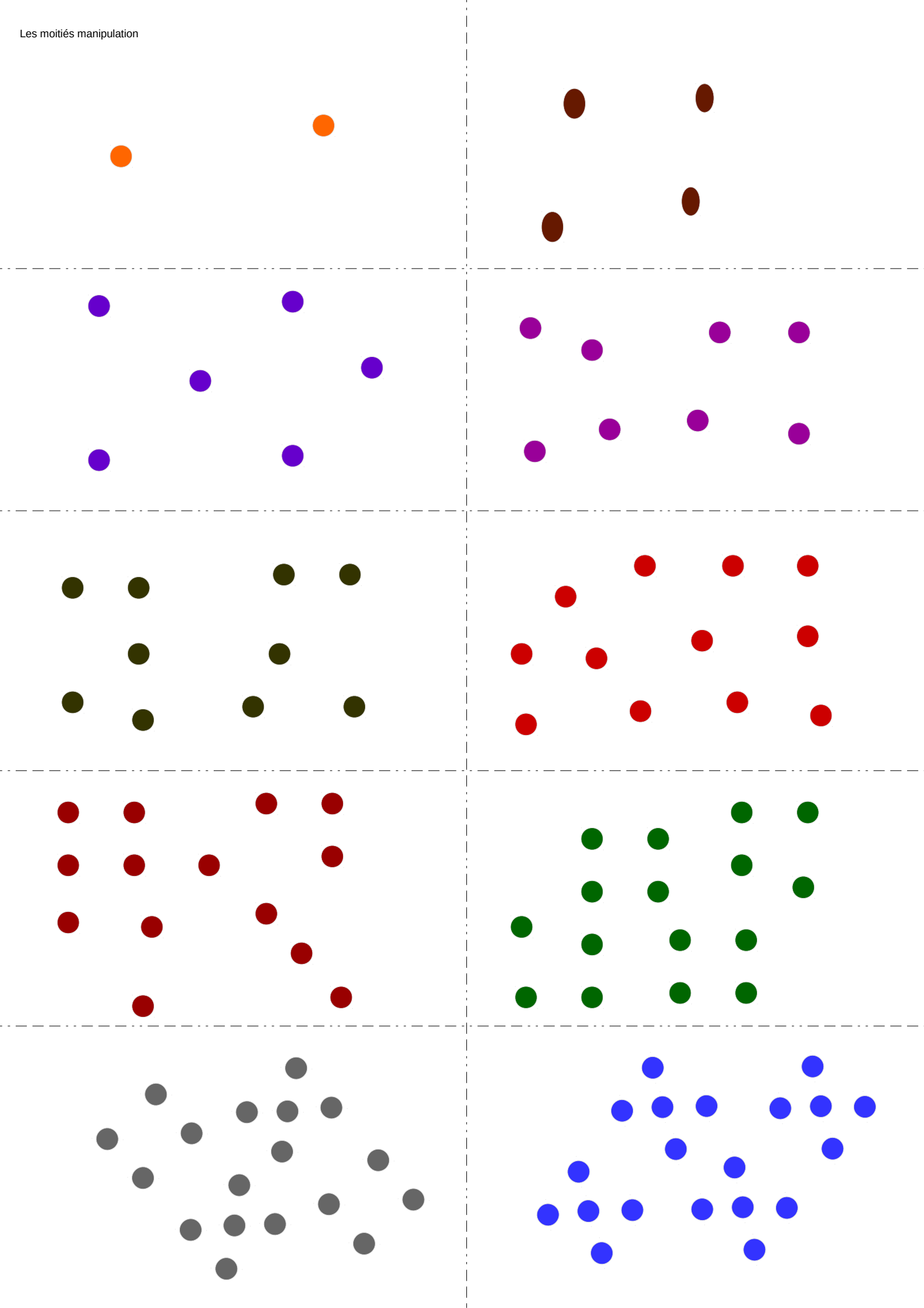Les moitiés manipulation