Write a quantified formula for the proposition

Every class meets at least twice a week.

Use the relation M(c, d) to represent "class c meets on day d". You may also use equality.

Solution: For a givin class c, the proposition posits the existence of two distinct days d and d' such that c meets on both d and d'. We can write this as

 $\forall c \exists d, d' \colon M(c, d) \text{ and } M(c, d') \text{ and } (\text{not } d = d').$