



(W)holy Numbers

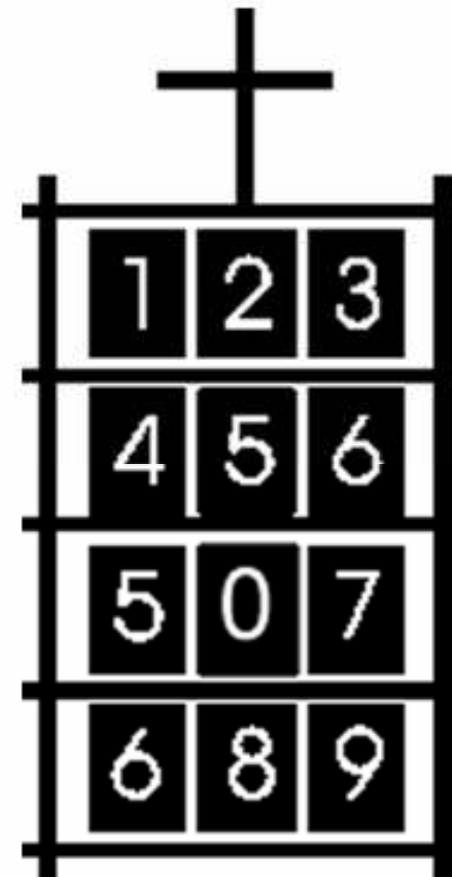
A church hymn book contains 700 hymns, numbered 1 to 700. Each Sunday the people in church sing four different hymns.

The numbers of the hymns are displayed in a frame using single-digit boards, like this one.



The board for 6 may be turned upside down to serve as a 9.

What is the minimum number of small boards that is needed to show any possible combination of four hymn numbers?



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www.nrich.maths.org