1014-N1-1380   **Helmer Aslaksen*** (`aslaksen@math.nus.edu.sg`), Dept. of Mathematics, National Univ. of Singapore, 117543 Singapore, Singapore. *What are demi-regular tilings?* Preliminary report.

Many popluar books on mathematics and art describe a family of 14 demi-regular tilings. They are supposed to be generalizations of Archimedean tilings in which you allow for more than one type of vertices. However, different authors give different sets of 14! In fact, it is very easy to see that there are in fact infinitely many such tilings! I will discuss the relevant concepts, and also try to trace the history of this incorrect definition. (Received September 28, 2005)