

## MATH 125 - Reading Assignment 9 - Section 7.2 - Spring 2008

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1. A pattern in which one or more repeated tiles are used to cover a plane without leaving gaps or overlapping and that can be extended forever in every direction is called a tiling or \_\_\_\_\_.
2. These patterns that use only tiles of one size and shape are called \_\_\_\_\_ tilings.
3. A \_\_\_\_\_ tiling is an edge-to-edge tiling in which the tiles used are all a single polygon that has all angles and all sides equal.
4. What are the only three shapes that can be used to make a tiling of the type described in #3 above?
  
5. Two vertices are said to be of the same vertex \_\_\_\_\_ if the same number and kind of polygons are arranged about them in the same order.
6. What is a semiregular tiling?
  
7. **True** or **False**: It is possible to produce a tiling with any type of triangle or quadrilateral.
8. **True** or **False**: It is possible to produce a tiling with any type of pentagon or hexagon.
9. **True** or **False**: It is possible to produce a tiling with shapes other than polygons.