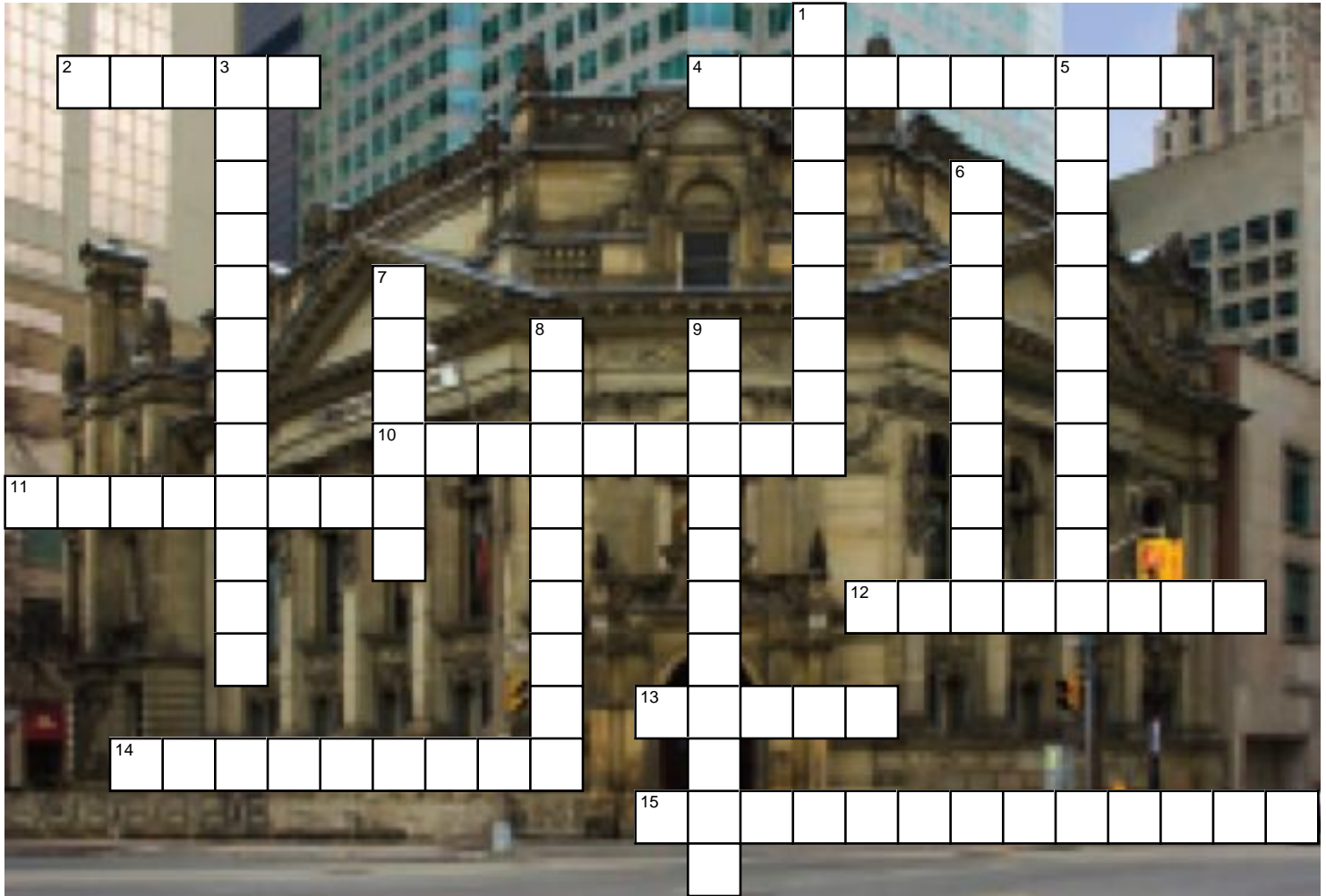


5.2 Elements of Design



Across

2. Good designers consider both the static and the dynamic _____ that might affect a structure.
4. _____ can reduce the volume of storm water runoff, improve air quality and reduce the roof's surface temperature. This makes the building cooler.
10. An _____ structure minimizes stress on the user's body.
11. A good design takes into account the _____ of a structure.
12. Well-_____ structures are safe, easy and comfortable to use and they are strong enough for the job they are designed for.
13. "Proto" in the word "prototype" means original. So a prototype is the _____ of its type ever made.
14. Prototypes are often _____ to build because each component must be made specifically for the prototype.
15. _____ often make a prototype of a structure before they commit to a design.

Down

1. Different people find different forms and shapes more appealing than others. No matter what the structure is, it will not be equally appealing to all people because _____ appeal is highly personal.
3. Ergonomic designers can design special structures for people with _____.
5. Many structures such as bicycles and ladders are built to be strong and sturdy but proper use includes not _____ them.
6. All structures are designed and built for specific _____.
7. After a designer or an inventor designs a new structure, he or she applies for a _____, which is a legal document that says the inventor owns the idea and can sell it.
8. A _____ is a model used to test and evaluate a design.
9. Humans tend to like things to look _____, that is, having equal halves. It is aesthetically pleasing. These things are usually also stable.