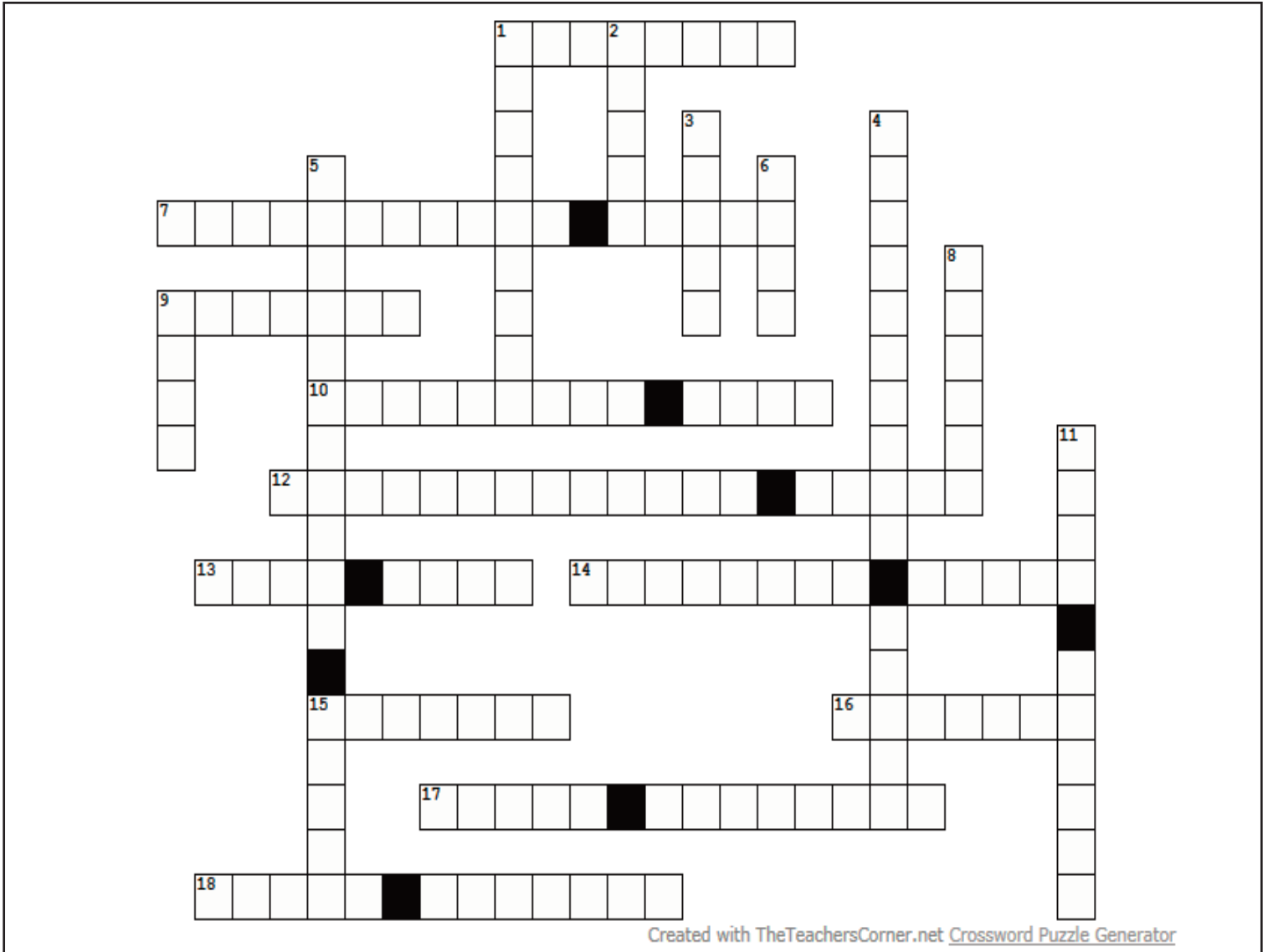


# PENNSYLVANIA ENGINEER CROSSWORD



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## Horizontal

1. The ends of a bridge span or dam that help support the bridge
7. Measuring device for drawings (1:60) Large areas
9. Vertical aspect of roads
10. A side view drawing
12. Measuring device for drawings (1:12) Small areas
13. Drawing looking down from above
14. Provides transition between two sloped roadways
15. Prevents user from falling off a bridge
16. One who makes detailed technical drawings
17. One who deals with design, construction, and maintenance of physical and natural built environment.
18. Drawing of a vertical plane cut through an object.

## Vertical

1. Geometric design of roads, the route of the road
2. Structure that consists of two-force members only
3. A rigid structure supported at each end
4. Provides transition between two tangent strips of roadway
5. Drawings or diagrams used to communicate building or fabrication instructions
6. Roadway surface of a bridge
8. Structure that spans physical obstacles
9. Raised structure in a body of water
11. Reproduction of technical drawing