## Wind Study is intended for grades 5-8 and 8-11 Questions posted on: Monday Answers posted on: Friday Find downloadable one pagers at www.oneenergy.com/one-energy-feed

## 2020Q1

## (2D GEOMETRY, 3D GEOMETRY)

One Energy is building a concrete foundation for a wind turbine. The foundation is a regular octagon with a depth of 4 feet. 300 cubic yards of concrete are used to create the foundation. One cubic yard of concrete weighs 4,050 lb.

Level 1: What does the foundation weigh?

Level 2: How long is each side of the octagon?

