

3.3 Exercises

For all of the questions below, estimate the given quantities without using any search engines - rely on your intuition and measurements you can do yourself. (For instance, if you want to know how thick a piece of paper is you could try to measure a ream of 500 sheets) Be sure to explain your reasoning.

1. The number of blades of grass on a football field.
2. The number of gas stations in the United States.
3. How much time Americans spend driving (in total) in a year.
4. The number of grains of sand in all the beaches of the world.
5. The kinetic energy of the moon as it orbits the Earth.