Private Pilot Quiz: Weight & Balance

1. Define CG and how do you calculate it?
2. Where can you find weight and balance data for the airplane you’re flying?
3. What is the unit of weight used for weight and balance calculations?
4. What is the basic empty weight of your aircraft?
5. What is the maximum ramp weight and maximum take off weight for your airplane?
6. What is the arm, or station with regards to calculating moment?
7. How do you calculate moment?
8. How do you convert gallons of fuel to pounds (lb) of fuel?
9. How much fuel (gallons) does your aircraft hold, and can you use all of it?
10. How many gallons of fuel does your aircraft burn per hour at normal cruise?
11. What is the difference between ramp weight and take off weight? How do you calculate it for your aircraft?
12. What are the 2 categories of aircraft which are defined by their CG limits?
13. How will weight affect takeoff and landing distances, including ground roll?