

GLTF Review Test

Name

Date

What is the CG of the Cessna 150 if you have the following?:

Pilot: 125 lbs Bags: 30 lbs BEW: 1119.8 lbs
Passenger: 115 lbs Fuel: 16 gallons Empty Weight CG: 32.45

Answer:

In the above weight & balance problem, with your calculated total moment & total weight, are you within the limits of the airplane?

YES

NO

What is Density Altitude? How does a HIGH density altitude affect your airplane? (hint: it affects the plane in 3 ways)

How do extended flaps affect your stall speed (V_s)?

INCREASES V_s

DECREASES V_s

GLTF Review Test

What is the definition of Center of Gravity (CG)?

What is the definition of Arm?

How does a Forward CG affect the airplane? (hint: think stability)

How does an Aft CG affect the airplane?

What are the two theories of lift? Explain both.

GLTF Review Test

What is the definition of “airfoil”?

What is the definition of “Angle of Attack”?

When does the airplane stall?

How does a higher weight affect stall speed?

INCREASES V_s DECREASES V_s

What is maneuvering speed? (V_a)

GLTF Review Test

Calculate the takeoff performance of the Cessna 150 in the following conditions:

Weight: 1600lbs

Airport elevation: 3,800' MSL

Temperature: 81°F

Headwind: 2 kts

Hard Surface Runway

Ground Run:

Total to clear 50' obstacle:

With the same information as above, calculate the landing distance.

Ground Roll:

Total to clear 50' obstacle:

On your takeoff roll, you notice that the airspeed does not “come alive”. The needle isn’t moving & is frozen on 0. What do you do & what could be causing the instrument to malfunction?

What instruments are included in the Pitot Static system?

GLTF Review Test

You're flying the traffic pattern with your CFI and it starts to rain. It's still VFR at the airport, but it is a little cold outside. What are some issues you consider, and how would you mitigate them?

During your flight, you notice that there is a DISCHARGE on your Ammeter. What could be the problem, and what would you do to try and troubleshoot the issue?

On your takeoff roll, you notice that the airspeed does not "come alive". The needle isn't moving & is frozen on 0. What do you do & what could be causing the instrument to malfunction?

What are the four strokes of a piston engine?

GLTF Review Test

You've just had an electrical failure in the plane. Will the engine still run?

Why or why not?

What components of the aircraft will not work during an electrical failure?

You're at McClellan Airport. The winds are 200° at 10 knots. What runway are you going to use? What is the crosswind component?

Name of Leg: _____



Name of Leg: _____



60



27

Name of Leg: _____



Name of Leg: _____



Name of Leg: _____

