

8-68 PLT012

On a cross-country flight, point A is crossed at 1500 hours and the plan is to reach point B at 1530 hours. Use the following information to determine the indicated airspeed required to reach point B on schedule.

Distance between A and B: 70 NM

Forecast wind: 310° at 15 knots

Pressure altitude: 8,000 ft

Ambient temperature: -10°C

True course: 270°

The required indicated airspeed would be approximately

A- 126 knots.

B- 137 knots.

C- 152 knots.

**8-42 PLT328**
(Refer to figures 33 and 34.)

What effect does a 35-gallon fuel burn (main tanks) have on the weight and balance if the airplane weighed 2,890 pounds and the MOM/100 was 2,452 at takeoff?

- A- Weight is reduced by 210 pounds and the CG is aft of limits.
- B- Weight is reduced by 210 pounds and the CG is unaffected.
- C- Weight is reduced to 2,680 pounds and the CG moves forward.

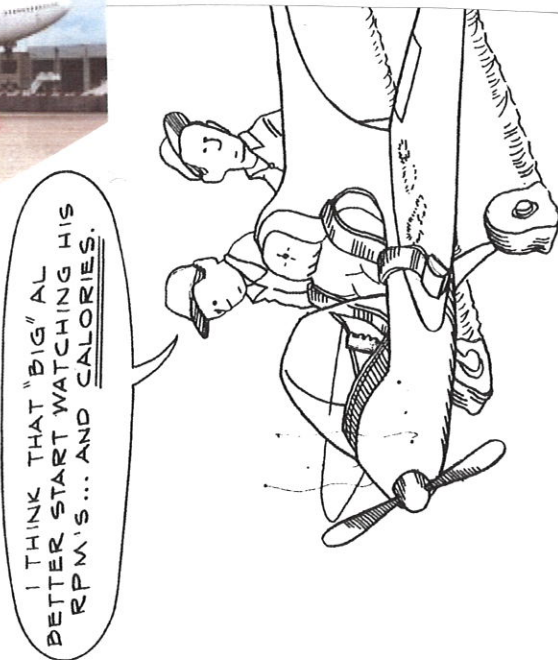
**8-44 PLT328**
(Refer to figure 62.)

If 50 pounds of weight is located at point X and 100 pounds at point Z, how much weight must be located at point Y to balance the plank?

A- 30 pounds.

B- 50 pounds.

C- 300 pounds.

**8-43 PLT328**
(Refer to figures 33 and 34.)

With the airplane loaded as follows, what action can be taken to balance the airplane?

Front seat occupants...411 lb

Rear seat occupants...100 lb

Main wing tanks...44 gal

- A- Fill the auxiliary wing tanks.
- B- Add a 100-pound weight to the baggage compartment.
- C- Transfer 10 gallons of fuel from the main tanks to the auxiliary tanks.