## Pre-flight Planning Sheet

| To: | ALT Planned / Pressure | IAS | TAS | Wind Dir. / Speed | True Track | True Heading | Mag. Variable | Mag. Heading | Ground Speed | Dist | Time | Fuel Used | Fuel Burn (gph) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Climb | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Airport information: Layout, NOTAMS, etc.

Frequencies: When:

| | | |
|---|---|---|
| Taxi & Takeoff | | |
| Pattern | | |
| Sub Total | | |
| Reserve | 0.45 | |
| **Total** | | |

RWY:
Wind:
ALT:

M.E.A. R.P.M.
ALT I.A.S.
Flight plan time:
Time off:
Time down:

| | Check Point | ETE / ETA | Time Over | Dist / time | Mag.Hdg: | Grndspd | Comp. Hdg: | Dist. To go | ETE / ETA |
|---|---|---|---|---|---|---|---|---|---|
| SHP | | | | | | | | | |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

Frequencies:

- ☐ Power/IAS check
- ☐ Lean Mixture
- ☐ Set D.G
- ☐ Radio
- ☐ Turn on Course
- ☐ Time at S.H.P.
- ☐ Depart. angle check

In air checklist

Non-planned events: ( Diversions )

| Time | HDG | Remarks | ETE | ETA |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

## Navigation Sheet – Steps for X-Country Planning

| | # 1 | # 4 | # 10 | G1 | # 2 | # 5 | G2 | # 7 | # 6 | # 3 | # 8 | # 9 | # 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TO:** | **Alt** | **IAS** | **TAS** | **WV** | **True Track** | **True HDG.** | **Mag. Var.** | **Mag. HDG.** | **Ground Speed** | **Dist.** | **Time** | **Fuel** | **Fuel Burn** |
| Cruise | | | | | | | | | | | | | |

**# 1.** Find Pressure Altitude: (Standard Pressure – Actual) x 1000 + Indicated Altitude

EX. (29.92 – 30.50) x 1000 + 3500' = 2920'

- Find Actual Pressure in the METAR of a weather package.
- Choose your Indicated Altitude based on the weather and cruising altitudes.

**# 4** Find TAS in the POH.

- Use % power and temperature.
- Note the Fuel Burn for that power setting and record in **# 11.**

**# 10** Find IAS .

- Line Pressure Altitude and Temperature on Whiz Wheel ( E6-B9 Computer).
- Read TAS on outside and CAS on inside.
- With CAS, use POH under Airspeed Calibration to find IAS.

Use FD's to record Wind Direction and Velocity (Speed) in **G1**

**# 2** Find True Track.

- Use the protractor and measure the degrees on your map ( N pointing North)

**# 5** Find True Heading and
**# 6** Ground Speed on the whiz wheel (Follow printed instructions on wind side of whiz wheel.)

Locate magnetic variable on your map and record in **G2**.

**# 7** Find Magnetic Heading.

- Use the true heading and add the variation.

**# 3** Find Distance.

- Use the ruler for measuring distance. ( Use the NM scale side)

**#8** Find Time.

- Use the whiz wheel, having the Ground Speed and Distance, calculate Time.
- Ground Speed under the thick arrow, Distance on the outside, Time on the inside.

**# 9** Find Fuel Needed.

- Using whiz wheel, use Fuel Burn and Time, Calculate Total Fuel Required.
- Gallons Per Hour under the thick arrow, Time on the inside, Total Fuel on outside.