Flight	Map	Aircraft	Identification	Power settings:75%		Cruising altitude	TAS [kts]	VAR [°E]
				Manif. Pres.	RPM			
Examen 2/2: LSZB - LSGE		DV20	HB—SDI	24	2300	4000	100 (70)	1

Waypoint	TC [°]	MC [°]	Dist [NM]	Altitude	EET [min]	Wind [°]	Wind [kts]	MH [°]	GS [kts]	EET [min]	ETO	ATO	Notes
LSZB													
	(180)	000	3		2+5					+5			
S	(250)	247	12		7								
VOR FRI	248												
	(210)	209	8		5								
S	210												
	(360)	000	3		2+5					+5			
LSGE													
			26		26								
	(180)	000	10		6+5					+5			
LSGT													
			10		11								

Climb: don't forget speed is lower!

TOD:

- 120kts (2NM/min) 500 ft/min (children <12y: 300)
- 1NM attitude change
- speed decreasing 2NM

(•) approach check 2NM if needed

Fuel per hour: 20 l/h

	Theory		Realm	
	time	fuel [l]	time	fuel [l]
Trip:	0 :26	9	:	
Alternate:	0 :11	4	:	
Reserve:	0 :45	15	0 :45	
Minimum fuel:		28		
Extra +5%:		2		
Ramp fuel:		30		

TH with wind:

1. $\alpha_1 = (360 + \mathrm{TC} - \mathrm{WH})\%360°$ and sign = 1
2. if $\alpha_1 > 180 : \alpha_1 = (360 + \mathrm{WH} - \mathrm{TC})\%360°$ and sign = 1
3. $\alpha_2 = \arcsin\left(\frac{\mathrm{WS}}{\mathrm{TS}} \cdot \sin\alpha_1\right)$
4. $\alpha_3 = 180 - (\alpha_1 + \alpha_2)$
5. $\mathrm{TH} = \mathrm{TC} + \mathrm{sign} \cdot \alpha_2$
6. $\mathrm{GS} = \frac{\sin\alpha_3}{\sin\alpha_1} \cdot \mathrm{TS}$

	Mass [kg]	Arm [m]	Moment [m kg]
Empty	526		171
Front		0.14300000667572	
Luggage		0.82400000095367	
0-fuel		min: max:	
Fuel	22	0.82400000095367	18
T-off	max: 730	min: max:	

1 USG = 3.785 l 1 USG Avgas = 6 lbs
1 Imp.G = 4.55 l