1)	We're covering .7 sm ev	very eighteen seconds. W	/hat is our groundspeed?	•
	a) 233 mphb) 140 mphc) 233 ktsd) 142 kts			
2)	You're traveling at 317	km/hr. If you've flown	502 km and burned 82.7	lbs./min, what is your total fuel burn?
	a) 1310 lbsb) 4937 lbsc) 2183 lbsd) 7858 lbs			
Given	1:			
	BEW Front Pas. Rear Pas. Bags Fuel (84 Gals)	Weight 2651 lbs. 294 lbs. () 59 lbs.	<u>Station</u> 59" 84" () 72"	Mom/1000 264.32 () 18.17 8.16 ()
Fill in	the above table to answe	er questions 3 through 6.		
3)	What is the weight of th	ne Rear Passengers?		
	a) 216 lbsb) 191 lbsc) 187 lbsd) 234 lbs			
4)	What is the Moment for	the Front Passengers?		
	a) 49.83b) 15.22c) 17.35d) 21.74			
5)	What is the Station for t	the Bags?		
	a) 48b) 126c) 107d) 138			
6)	What is the Moment for	the Fuel?		
	a) 36.3 b) 41.7 c) 60.5 d) 28.6			

7)	.38 hours equals how many seconds?
	a) 6330 b) 2280 c) 1368 d) 1512
8)	Field Elevation = 5916′ Temperature = 31°C Altimeter = 29.97″ What is the Density Altitude?
	a) 8410' b) 8950' c) 9300' d) 9550'
9)	723 feet equals how many meters?
	a) 220 b) 245 c) 202 d) 232
Given	: Wind = $115^{\circ}/18$,kts, TAS = 148 kts. Temp. = -11° C Press. Alt. = $6500'$ TC (outbound) = 163° Fuel burn = 8.9 gal/hr Fuel load = 67 gals Var. = 11° W Dev. = -4°
10)	Find the time to turn.
	a) 7 hours 31 minutesb) 4 hours 04 minutesc) 3 hours 51 minutesd) 3 hours 36 minutes
11)	If you cover 1.7 nm in 1 minute 49 seconds, how many feet per minute do you need to maintain 348 feet per nautical mile?
	a) 372 b) 325 c) 387 d) 341
12)	You fly 407 nm in 2 hours 32 minutes. Your MH is 088° with a TAS of 154 kts. The variation is 4° W and the Wind correction angle is 9° R. What is the true wind direction and speed?
	a) 354° at 47 kts b) 313° at 32 kts c) 197° at 21 kts d) 185° at 26 kts

13)	You fly across Radial 342 and then Radial 018 at a groundspeed of 115 kts. If it takes you 22 minutes to turn and fly to the station, how long will it take you to pass between the radials?
	a) 11 minutes b) 9 minutes c) 13 minutes d) 15 minutes
14)	Altitude = 15500′ Temperature = -2° C What TAS will give you 193 mph IAS?
	a) 188 kts b) 198 kts c) 219 kts d) 252 kts
15)	You fly between two airports, a total distance of 324 sm. The wind is 173°/23 kts and a TC of 148°. Your average fuel burn is 12.3 gal/hr and your TAS is 102 kts. What is the fuel required for this trip (US gals)?
	a) 42.7 gals b) 49.2 gals c) 50.9 gals d) 46.8 gals
16)	227 liters of oil equals how many US gallons?
	a) 60.0 b) 55.4 c) 85.8 d) 69.9
17)	You travel 213 sm in 1 hour and 18 minutes. What is your speed?
	a) 164 kts b) 136 kts c) 142 kts d) 171 mph
Given:	$MH = 354^{\circ} TC = 009^{\circ} MC = 359^{\circ}$
18)	Using the above information, what is the Wind Correction Angle?
	a) 5° L b) 10° L c) 15° L d) 10° R
19)	Using the above information, what is the Variation?
	a) 5°E b) 10°E c) 15°E d) 15°W

20)	Your Density altitude is 6900' and the Pressure Altitude is 6100'. What TAS will equals the speed of sound?
	a) 614 kts b) 667 kts c) 623 kts d) 648 kts
21)	The winds are 151° at 34 kts. Your TAS is 171 kts. If your TC is 072°, what is your TH?
	a) 079° b) 077° c) 083° d) 087°
22)	If the ATIS indicates the wind to be $045/14$ and the departure runway to be 07 , what is the headwind component?
	a) 16 kts b) 8 kts c) 10 kts d) 13 kts
23)	Three 55 US gallon barrels of fuel weighs how much?
	a) 990 lbs b) 331 lbs c) 1237 lbs d) 667 lbs
24)	Three 55 Imperial gallon barrels of oil weighs how much?
	a) 1486 lbs b) 1237 lbs c) 1334 lbs d) 1522 lbs
25)	After doing the Weight and Balance, you find that you're .23" aft of the CG limit. How much weight will you need to move from station 112 to station 80 in order to bring the aircraft safely within CG (1 inch inside of the aft limit) if you weigh 1322 kilos?
	a) 78.9 lbs b) 112.0 lbs c) 88.5 lbs d) 51.0 lbs
26)	At 7500' the temperature is 11° C. The local altimeter setting is 30.08 ". If your TAS is 154 mph, what is your IAS?
	a) 128 kts b) 135 kts c) 118 kts d) 140 kts

Use	the following information to answer the next few questions.
	Winds true: 051° at 16 kts TC: 168° Dev: 6° W TAS: 157 kts Var: 11° W
27)	What is your Ground speed?
	a) 159 kts b) 164 kts c) 169 kts d) 182 mph
28)	What is the Compass Course?
	a) 185° b) 182° c) 151° d) 174°
29)	What is your Magnetic Heading?
	a) 169° b) 185° c) 164° d) 174°
30)	4.4 meters equals how many inches?
	a) 94 b) 133 c) 173 d) 156
31)	What is the standard temperature at 19,500'?
	a) -11° F b) -35° F c) -24° F d) -18° F
32)	What is the True Altitude if at your Indicated Altitude of 7500' the temperature is 48° F and the altimeter setting $28.97''$?
	a) 7220' b) 7760' c) 7030' d) 7880'

33)	You're cruising at 141 mph. You cross radial 049 and 14 minutes later you cross radial 031. What is the distance to the VOR?
	a) 181 sm b) 107 sm c) 122 sm d) 99 nm
34)	You have flown for 22 minutes and the DME indicates that you've traveled 81 nm. You notice that you're 14 nm to the right of you intended course. If you have another 129 nm to your destination, what would be your new heading to your destination if your original heading was 062°?
	a) 079° b) 052° c) 056° d) 046°
35)	CG = 84.8" Gross weight = 8052 kg CG aft limit = 84.2" How much weight do we need to remove from station 123 in order to bring the aircraft within CG?
	a) 121 kilos b) 114 kilos c) 125 kilos d) 130 kilos
36)	6.1 hours is how many seconds?
	a) 21,960 b) 36,660 c) 10,166 d) 16,990
37)	27430 feet equals how many nautical miles?
	a) 5.19 b) 4.51 c) 4.17 d) 4.78
38)	Field elevation = 1540′ Temperature = 82° F Altimeter setting = 30.33″ What is the Density Altitude?
	a) 3550 b) 1360 c) 2205 d) 2855

- 39) Wind = 105° at 31 kts TC = 330° TAS = 151 kts What is the ground speed?
 - a) 159 kts
 - b) 165 kts
 - c) 171 kts
 - d) 182 kts
- 40) You travel at 337 km/hr for 3 hour 13 minutes. What distance did you cover?
 - a) 585 nm

 - b) 997 nm c) 710 nm
 - d) 529 nm