

(A46) ATPL載重平衡

最近更新日期：無；更新題號：無

原始題號:0014361 題組:1 難易度:易

- (B) 1. "已知:DOW=45680, MZFW=62600, MLDW=68040, MTOW=76850, TIF=5300, TOF=9800, 最大酬載為何?"
(A)15570 (B)16920 (C)16190 (D)全部皆非

原始題號:0014362 題組:2 難易度:易

- (C) 2. "已知: DOW=45680, MZFW=62600, MLDW=68040, MTOW=76850, TIF=4230, TOF=10400, 最大酬載為何?"
(A)15570 (B)16920 (C)16190 (D)全部皆非

原始題號:0014363 題組:1 難易度:易

- (B) 3. "已知: MZFW=130000, MLDW=140000, MTOW=170000, DOW=90000, TIF=20000, TOF=30000, 酬載為40000, 此趟飛行之零油重為何?"
(A)120000 (B)130000 (C)140000 (D)全部皆非

原始題號:0014364 題組:2 難易度:易

- (B) 4. "已知: MZFW=140000, MLDW=140000, MTOW=170000, DOW=90000, TIF=20000, TOF=30000, 酬載為40000, 此趟飛行之零油重為何?"
(A)120000 (B)130000 (C)140000 (D)全部皆非

原始題號:0014365 題組:1 難易度:易 (R20141029)

- (B) 5. "已知: ZFW=A, LDW=B, TOW=C, DOW=D, TIF=E, TOF=F, 可操作重量為G (Operating weight), 酬載為H, 下列何者正確?"
(A)D=A+E (B)G=D+F (C)B=C-F (D)全部皆非

原始題號:0014366 題組:2 難易度:易

- (A) 6. "已知: ZFW=A, LDW=B, TOW=C, DOW=D, TIF=E, TOF=F, 可操作重量為G (Operating weight), 酬載為H, 下列何者正確?"
(A)C=B+E (B)C=D+E (C)C=D+F (D)全部皆非

原始題號:0014367 題組:3 難易度:易

- (A) 7. "已知: ZFW=A, LDW=B, TOW=C, DOW=D, TIF=E, TOF=F, 可操作重量為G (Operating weight), 酬載為H, 下列何者正確?"
(A)C=D+F+H (B)C=D+E+H (C)C=A+F+H (D)全部皆非

原始題號:0014368 題組:0 難易度:易 (R20150429)

- (B) 8. 民航機的重心位於何處較省油
(A)位於CG範圍之前段 (B)位於CG範圍之後段 (C)與C.G. 位置無關 (D)全部皆非

原始題號:0014369 題組:0 難易度:易

- (A) 9. 飛機攜帶壓艙油之主要原因為何?
(A)C.G. 位置超出限制範圍 (B)重量超過限制 (C)油量不足 (D)全部皆非

原始題號:0014370 題組:0 難易度:易

- (C) 10. 壓艙油應屬於下列何者?
(A)飛機基本重量(basic weight) (B)起飛油量(take off fuel) (C)零油重量(zero fuel weight) (D)全部皆非

原始題號:0014371 題組:0 難易度:易

- (C) 11. 下列敘述何者錯誤?
(A)零油重=dry operating weight+酬載 (B)起飛重=零油重+起飛油重 (C)落地重=起飛重- 起飛油重 (D)全部皆非

原始題號:0014372 題組:0 難易度:易 (R20150429)

- (C) 12. "如何決定ZFW, LDW, TOW何者限制某趟飛行之最大允許酬載重?"
(A)MZFW, MLDW, MTOW三者中最輕者為準 (B)MZFW, MLDW, MTOW三者中最重者為準
(C)MZFW, MLDW, MTOW三者中最接近其相對最大限制重量者為準 (D)全部皆非

原始題號:0014373 題組:0 難易度:易 (R20150429)

- (C) 13. "針對民航客機之縱向穩定性, 其升力中心與重心之相對位置關係為何?"
(A)升力中心在重心之前 (B)升力中心與重心在同一點 (C)升力中心在重心之後 (D)全部皆非

原始題號:0014374 題組:0 難易度:易

- (B) 14. "民航飛機要有較佳之控制性, 下列敘述何者正確?"
(A)後重心較佳 (B)前重心較佳 (C)獨立之重心 (D)全部皆非

原始題號:0014375 題組:0 難易度:易 (R20150429)

- (A) 15. "民航飛機要有較靈活之操控性, 下列敘述何者正確?"
(A)後重心較佳 (B)前重心較佳 (C)獨立之重心 (D)全部皆非

原始題號:0014376 題組:0 難易度:易

- (B) 16. "當飛機裝載完成, 重心確定後, 如果再於某位置加載貨物, 則飛機重心會往何處移動?"
(A)往加載貨物位置之相反方向移動 (B)往加載貨物位置之方向移動 (C)重心不會改變
(D)全部皆非

原始題號:0014377 題組:0 難易度:易 (R20150429)

- (A) 17. 民航客機之用油順序一般為何?
(A)"先用中油箱, 再用機翼油箱" (B)"先用機翼油箱, 再用機身油箱" (C)"不一定, 依據機型而定" (D)全部皆非

原始題號:0014378 題組:0 難易度:易 (R20150429)

- (B) 18. "對於長程航班, 允許酬載通常受下列那一個重量限制?"
(A)最大落地重量 (B)最大起飛重量 (C)最大零油重量 (D)全部皆非

原始題號:0014379 題組:0 難易度:易

- (B) 19. Taxi weight 等於?
(A)Payload plus operating weight. (B) Zero fuel weight plus total fuel load.
(C)"Zero fuel weight plus payload, fuel, and oil."

原始題號:0014380 題組:0 難易度:易 (R20150805)

- (C) 20. ZFW 加上 TOF 等於?
(A)DOW (B)Landing weight (C)TOW (D)TF

原始題號:0014381 題組:0 難易度:易

- (B) 21. Payload不包括?
(A)乘客 (B)燃油 (C)貨物

原始題號:0014382 題組:0 難易度:易 (R20150429)

- (C) 22. "已知:重心位置為1419 英吋, LEMAC 位置為1312 英吋, MAC長度為295.8 英吋, 重心位置可以用多少%MAC表示?"
(A)35.2%MAC (B)35.8%MAC (C)36.2%MAC (D)全部皆非

原始題號:0014383 題組:0 難易度:易 (R20140801)

- (A) 23. "已知: MTOW=283 噸, MLDW=207 噸, MZFW=195噸, DOW=114 噸, Trip fuel = 70 噸, take off fuel=80 噸, traffic load =55 噸, 此趟飛行若C.G. 超出限制, 可裝載之最大壓艙油量為何?"
(A)26 噸 (B)34 噸 (C)不可裝載任何壓艙油 (D)全部皆非

原始題號:0014384 題組:0 難易度:易

- (B) 24. "已知: 飛機種量為176000kg, MAC = 327.8 inch, LEMAC= 1258 inch, 重心位置為25%MAC 如果在1500 inch 處, 加裝5000kg 之貨物, 則重心位置會移動多少? ?"
(A)1.24%MAC (B)1.34%MAC (C)1.44%MAC (D)全部皆非

原始題號:0014385 題組:1 難易度:易

- (B) 25. "已知: 空重 - 1100/力臂29, 飛行員 (前座) 重170/力臂-45, 旅客重160/力臂+2, 壓艙物重15/力臂-50, 重心位於?"
(A)+14.91 (B)+16.48 (C)+14.48

原始題號:0014386 題組:2 難易度:易

- (B) 26. "已知: 空重 1100/力臂30, 飛行員 (前座) 重170/力臂-40, 旅客重160/力臂+5, 壓艙物重50/力臂-50, 重心位於?"
(A)+17.55 (B)+16.55 (C)+15.55

原始題號:0014387 題組:3 難易度:易

- (A) 27. "已知: 空重 1100/力臂30, 飛行員 (前座) 重170/力臂-40, 旅客重300/力臂+5, 壓艙物重50/力臂-50, 重心位於?"
(A)+15.56 (B)+16.56 (C)+17.56

原始題號:0014388 題組:1 難易度:易

- (A) 28. "已知: 重量A - 155磅, 支點後方55吋, 重量B - 165磅, 支點後方155吋, 重量C - 95磅, 支點後方195吋, 根據以上資訊, 重心位置?"
(A)126.8英吋 (B)122.2英吋 (C)124.5英吋

原始題號:0014389 題組:2 難易度:易

- (C) 29. "已知: 重量A -155磅, 支點後方55吋, 重量B -165磅, 支點後方155吋, 重量C - 95磅, 支點後方185吋, 根據以上資訊, 重心位置距支點後方何處?"
(A)120.5英吋 (B)116.8英吋 (C)124.5英吋

原始題號:0014390 題組:1 難易度:中

- (C) 30. "已知: MZFW=15830, MLDW=17000, MTOW=18370, DOW=10530, 酬載為4950, TIF=1370, min TOF=1920, 最多可再多載多少額外油量?"
(A)1990 (B)650 (C)970 (D)全部皆非

原始題號:0014391 題組:2 難易度:中

- (A) 31. "已知: MZFW=15830, MLDW=17000, MTOW=18370, DOW=10950, 酬載為3640, TIF=610, min TOF=1030, 最多可再多載多少額外油量?"
(A)1990 (B)650 (C)970 (D)全部皆非

原始題號:0014392 題組:1 難易度:中

- (A) 32. 已知: MZFW=130634, MLDW=145149, MTOW=170000, DOW=89886, TIF=20000, TOF=30000
此趟飛行允許之最大酬載重量maximum allowed traffic load 為何?
(A)40748 (B)40114 (C)38263 (D)全部皆非

原始題號:0014393 題組:2 難易度:中

- (C) 33. 已知: MZFW=130634, MLDW=145149, MTOW=170000, DOW=89886, TIF=20000, TOF=40000
此趟飛行允許之最大起飛重量 allowed weight for take off為何?
(A)160634 (B)170000 (C)165149 (D)全部皆非

原始題號:0014394 題組:3 難易度:中

- (B) 34. 已知: MZFW=130634, MLDW=145149, MTOW=170000, DOW=89886, TIF=30000, TOF=40000
此趟飛行允許之最大酬載重量maximum allowed traffic load為何?
(A)40748 (B)40114 (C)38263 (D)全部皆非

原始題號:0014395 題組:1 難易度:中

- (A) 35. "根據以下結構及裝載條件, 48x48英吋盤上最多可裝多重?
單位面積酬載限制: 159英磅/每平方英尺
盤重: 63英磅
網綁裝備重: 37英磅"
(A)2444.0 英磅 (B)2624.0 英磅 (C)2464.0英磅

原始題號:0014396 題組:2 難易度:中

- (B) 36. "根據以下結構及裝載條件, 48x48英吋盤上最多可裝多重?
單位面積酬載限制: 169英磅/每平方英尺
盤重: 50英磅
網綁裝備重: 30英磅"
(A)1948.0 英磅 (B)2624.0 英磅 (C)2784.0英磅

原始題號:0014397 題組:1 難易度:中

- (B) 37. "航空器之最小地板酬載限制為何才能承載下列貨盤?
盤尺寸: 100英吋寬, 100英吋長
盤重: 190英磅
網綁裝備重: 60英磅
貨重: 12000英磅"
(A)166 英磅/平方英尺 (B)177 英磅/平方英尺 (C)188 英磅/平方英尺

原始題號:0014398 題組:2 難易度:中

- (A) 38. "航空器之最小地板酬載限制為何才能承載下列貨盤？
盤尺寸：68.9英吋寬，88.7英吋長
盤重：161英磅
網綁裝備重：54英磅
貨重：11810.5英鎊"
(A)283 英磅/平方英尺 (B)223 英磅/平方英尺 (C)183 英磅/平方英尺

原始題號:0014399 題組:3 難易度:中

- (B) 39. "航空器之最小地板酬載限制為何才能承載下列貨盤？
盤尺寸：80英吋寬，100英吋長
盤重：170英磅
網綁裝備重：50英磅
貨重：10000英鎊"
(A)182 英磅/平方英尺 (B)184 英磅/平方英尺 (C)183 英磅/平方英尺

原始題號:0014400 題組:1 難易度:中

- (B) 40. "已知：
總重 -
3037磅，重心位置65.6
燃油消耗率每小時12.7加侖
油箱重心位置68.0
經過1小時45分飛時後，重心位於？"
(A)64.86 (B)65.49 (C)66.54

原始題號:0014401 題組:2 難易度:中 (R20190702)

- (C) 41. "已知：
總重 -
3900磅，重心位置70
燃油消耗率每小時14加侖
油箱重心位置60
經過2小時30分飛時後，重心位於？"
(A)71.13 (B)72.12 (C)70.57

原始題號:0014402 題組:3 難易度:中

- (B) 42. "已知：
總重 -
4000磅，重心位置70
燃油消耗率每小時14加侖
油箱重心位置60
經過2小時30分飛時後，重心位於？"
(A)69.55 (B)70.55 (C)71.55

原始題號:0014403 題組:4 難易度:中 (R20190702)

- (B) 43. " 已知：
總重 -
4037磅，重心位置68.7
燃油消耗率每小時12.7加侖
油箱重心位置68.0
經過1小時45分飛時後，重心位於？"
(A)68.63 (B)68.72 (C)68.81

原始題號:0014404 題組:5 難易度:中

- (B) 44. " 已知：
總重 -
4137磅，重心位置72
燃油消耗率每小時13.7加侖
油箱重心位置68.0
經過1小時30分飛時後，重心位於？"
(A)67.79 (B)72.12 (C)70.78

原始題號:0014405 題組:1 難易度:中

- (A) 45. " 一航空器重4,800磅，其重心位於支點後95英吋且超出限制後方1英吋，裝了三件行李在後行李艙，如果從後行李艙（位於支點後145英吋）移動90磅行李至前行李艙（位於支點後45英吋），新重心位置？"
(A)參考位置之後 93.13 英吋 (B)參考位置之後 95.13 英吋 (C)參考位置之後 94.13 英吋

原始題號:0014406 題組:2 難易度:中

- (B) 46. " 一航空器重4,800磅，其重心位於支點後97英吋且超出限制後方1英吋，裝了三件行李在後行李艙，如果從後行李艙（位於支點後145英吋）移動90磅行李至前行李艙（位於支點後45英吋），新重心位置？"
(A)參考位置之後 96.13 英吋 (B)參考位置之後 95.13 英吋 (C)參考位置之後 94.13 英吋

原始題號:0014407 題組:3 難易度:中

- (B) 47. " 一航空器重4,800磅，其重心位於參考位置後98英吋，裝了三件行李在後行李艙，如果從後行李艙（位於參考位置後145英吋）移動500磅行李至前行李艙（位於參考位置後45英吋），新重心位置？"
(A)參考位置之後 93.13 英吋 (B)參考位置之後87.58 英吋 (C)參考位置之後 83.58 英吋

原始題號:0014408 題組:1 難易度:中

- (B) 48. " 一航空器重量及重心分別為3,650磅及96，為了使重心前移至92位置，大約要從後行李艙180移動多少行李至前行李艙40？"
(A)52.14英磅 (B)104.29英磅 (C)78.14英磅

原始題號:0014409 題組:2 難易度:中 (R20190702)

- (C) 49. " 一航空器重量及重心分別為3,650磅及96，為了使重心前移至94位置，大約要從後行李艙180移動多少行李至前行李艙60？"
(A)73.0英磅 (B)36.5英磅 (C)60.83英磅

原始題號:0014410 題組:3 難易度:中

- (B) 50. "一航空器重量及重心分別為3,650磅及96，為了使重心前移至95位置，大約要從後行李艙180移動多少行李至前行李艙80?"
(A)52.14英磅 (B)36.5英磅 (C)26.07英磅

原始題號:0014411 題組:0 難易度:中

- (D) 51. 零油重量 (ZERO FUEL WEIGHT) 之限制，是在防止：
(A)油量不足 (B)油量過多 (C)飛機超重 (D)飛機結構受損

原始題號:0014412 題組:0 難易度:中

- (B) 52. 飛機之總重量愈重，則貨物或乘客之移動，影響平衡性：
(A)愈大 (B)愈小 (C)相同 (D)無影響

原始題號:0014413 題組:0 難易度:中

- (A) 53. 下列何種因素會減少飛機最大起飛重量
(A)氣溫高，或順風起飛 (B)氣溫低，或逆風起飛 (C)氣溫高並順風起飛

原始題號:0014414 題組:0 難易度:中

- (D) 54. 假設某機之MAC為124吋，而其重心限度範圍，分別為前限 (FWD LIMIT) 22%，後限 (AFT LIMIT) 41%，求重心可活動之範圍？
(A)78.12吋 (B)27.28吋 (C)50.84吋 (D)23.56吋

原始題號:0014415 題組:0 難易度:中

- (C) 55. 飛機之最大總重量為：
(A)飛機、乘客及組員之全部總重量. (B)飛機、乘客、組員及貨物之全部總重量 (C)該機所列規格中包括飛機及其全部所容物之法定最大重量 (D)民航局所列包括飛機及其全部所容物之法定最大重量

原始題號:0014416 題組:0 難易度:中

- (B) 56. 一飛機總重量為125000磅，重心位置超出後限四吋，若將部份載重由720吋移至420吋，使其重心位置位於後限之前，則此移動之貨物其重量至少需為若干磅？
(A)1621磅 (B)1667磅 (C)1686磅 (D)1766磅

原始題號:0014417 題組:0 難易度:中

- (D) 57. 飛機總重146000磅，若將貨物裝載於後貨艙，則此時重心位於702吋，如欲使重心前移三吋，則需將貨物若干磅移至前貨艙？前貨艙位於510吋，後貨艙位於1030吋：
(A)629磅 (B)734磅 (C)769磅 (D)842磅

原始題號:0014418 題組:0 難易度:易

- (A) 58. 一10磅重之物對另一20磅重之物平衡時，其10磅重物之力臂必須為20磅之_____：
(A)二倍 (B)三倍 (C)五倍 (D)四倍

原始題號:0014419 題組:0 難易度:易

- (D) 59. 一架飛機之重心位置通常以何種百分比數字表示之：
(A)翼弦(Chord) (B)英吋(Inch) (C)指數(Index) (D)平均空氣動力弦(MAC)

原始題號:0014420 題組:0 難易度:易 (R20180823)

- (C) 60. 飛機淨重量外加滑油，組員，組員行李，客艙裝備及緊急裝備等重量總和稱為：
(A)基本重量(Basic operation weight) (B)總重量(Gross weight) (C)操作空重(Dry Operating Weight) (D)零油重量(Zero fuel weight)

原始題號:0014361 題組:1 難易度:易

- (B) 61. "Given: DOW=45680, MZFW=62600, MLDW=68040, MTOW=76850, TIF=5300, TOF=9800, what is maximum payload ?"
(A)15570 (B)16920 (C)16190

原始題號:0014362 題組:2 難易度:易

- (C) 62. "Given: DOW=45680, MZFW=62600, MLDW=68040, MTOW=76850, TIF=4230, TOF=10400, what is maximum payload ?"
(A)15570 (B)16920 (C)16190

原始題號:0014363 題組:1 難易度:易

- (B) 63. "Given: MZFW=130000, MLDW=140000, MTOW=170000, DOW=90000, TIF=20000, TOF=30000, Payload=40000, what is the zero fuel weight for this flight?"
(A)120000 (B)130000 (C)140000

原始題號:0014364 題組:2 難易度:易

- (B) 64. "Given: MZFW=140000, MLDW=140000, MTOW=170000, DOW=90000, TIF=20000, TOF=30000, Payload=40000, what is the zero fuel weight for this flight?"
(A)120000 (B)130000 (C)140000

原始題號:0014365 題組:1 難易度:易 (R20141029)

- (B) 65. "Given: ZFW=A, LDW=B, TOW=C, DOW=D, TIF=E, TOF=F, Operating weight=G, Payload=H, I what is true?"
(A) $D=A+E$ (B) $G=D+F$ (C) $B=C-F$ (D)None.

原始題號:0014366 題組:2 難易度:易

- (A) 66. "Given: ZFW=A, LDW=B, TOW=C, DOW=D, TIF=E, TOF=F, Operating weight=G, Payload=H, I what is true?"
(A) $C=B+E$ (B) $C=D+E$ (C) $C=D+F$

原始題號:0014367 題組:3 難易度:易

- (A) 67. "Given: ZFW=A, LDW=B, TOW=C, DOW=D, TIF=E, TOF=F, Operating weight=G, Payload=H, I what is true?"
(A) $C=D+F+H$ (B) $C=D+E+H$ (C) $C=A+F+H$

原始題號:0014368 題組:0 難易度:易 (R20150429)

- (B) 68. "For fuel saving, the C.G. of the transport aircraft should be "
(A)in the forward of C.G. limitation (B)in the aftward of C.G. limitation (C)the C.G. position has no effect on fuel saving (D)None of them.

原始題號:0014369 題組:0 難易度:易

- (A) 69. The main reason of carrying Ballast Fuel is because of
(A)the C.G. out of trim (B)the weight out of limit (C)fuel not enough

原始題號:0014370 題組:0 難易度:易

- (C) 70. "In case of carrying Ballast Fuel, what weight should the ballast fuel be included ?"
(A)aircraft basic weight (B)take off fuel (C)zero fuel weight

原始題號:0014371 題組:0 難易度:易

(C) 71. which of the following description is FALSE

(A)ZFW=DOW+Payload (B)TOW=ZFW+T/O fuel (C)LDW=TOW-T/O fuel

原始題號:0014372 題組:0 難易度:易 (R20150429)

(C) 72. "Among ZFW, LDW, TOW, how to identify the most critical weight which limits the maximum allowable payload for specific flight?"

(A)"the lightest weight of MZFW, MLDW, MTOW " (B)"the heaviest weight of MZFW, MLDW, MTOW" (C)The weight which is closest to its respective max. weight (D)None of them.

原始題號:0014373 題組:0 難易度:易 (R20150429)

(C) 73. "For longitudinal stability, the relation between LIFT force center and C.G. for transport airplane is ?"

(A)lift force center is forward of C.G. (B)lift force center overlap with C.G. (C)lift force center is aftward of C.G. (D)None of them.

原始題號:0014374 題組:0 難易度:易

(B) 74. "For better control ability, which is TRUE?"

(A)AFT C.G. is preferred (B)FWD C.G. is preferred (C)independent of C.G.

原始題號:0014375 題組:0 難易度:易 (R20150429)

(A) 75. "For better maneuver ability, which is TRUE?"

(A)AFT C.G. is preferred (B)FWD C.G. is preferred (C)independent of C.G. (D)None of them.

原始題號:0014376 題組:0 難易度:易

(B) 76. The aircraft C.G. is finalized when completely loaded. What direction will the C.G. move if we load something on specific direction ?

(A)The reverse direction on which something was loaded (B)The same direction on which something was loaded (C)C.G. will not change

原始題號:0014377 題組:0 難易度:易 (R20150429)

(A) 77. "For commercial airplane, what is the normal fuel usage sequence ? "

(A)"Center tank first , then main wing tank." (B)"Main wing tank, then center tank" (C)depend on aircraft type (D)None of them.

原始題號:0014378 題組:0 難易度:易 (R20150429)

(B) 78. "For long haul flight, the critical weight for allowable traffic load is normally limited by"

(A)Maximum landing weight (B)Maximum take off weight (C)maximum zero fuel weight (D)None of them.

原始題號:0014379 題組:0 難易度:易

(B) 79. Which of the following weight factors determine ramp or taxi weight?

(A)Payload plus operating weight. (B) Zero fuel weight plus total fuel load. (C)"Zero fuel weight plus payload, fuel, and oil."

原始題號:0014380 題組:0 難易度:易 (R20150805)

(C) 80. ZFW + TOF =?

(A)DOW (B)Landing weight (C)TOW (D)TF

原始題號:0014381 題組:0 難易度:易

(B) 81. Payload not includes?

(A)Passenger (B)Fuel (C)Cargo

原始題號:0014382 題組:0 難易度:易 (R20150429)

(C) 82. "Given: C.G. at 1419 inch, LEMAC at 1312 inch, MAC=295.8, How much percent MAC is C.G. position ?"

(A)35.2%MAC (B)35.8%MAC (C)36.2%MAC (D)None of them.

原始題號:0014383 題組:0 難易度:易 (R20140801)

(A) 83. "Given: MTOW=283 tons, MLDW=207 tons, MZFW=195 tons, DOW=114 tons, Trip fuel = 70 tons, take off fuel=80 tons, traffic load =55 tons, what is the maximum Ballast Fuel Quantity can be carried if C.G. is out of trim?"

(A)26 tons (B)34 tons (C)ballast fuel is not allowed. (D)None of all

原始題號:0014384 題組:0 難易度:易

(B) 84. "Given: airplane weight =176000 kg, MAC= 327.8inch, LEMAC=1258 inch, C.G.=25% MAC, if we load 5000 kg cargo at location of 1500 inch, how much the CG position will be changed?"

(A)1.24%MAC (B)1.34%MAC (C)1.44%MAC

原始題號:0014385 題組:1 難易度:易

(B) 85. "GIVEN:

Empty weight 1100 with Arm 29

Pilot (fwd seat) weight 170 with Arm -45

Passenger (aft seat) weight 160 with Arm +2

Ballast weight 15 with Arm -50

the CG is located at station"

(A)+14.91 (B)+16.48 (C)+14.48

原始題號:0014386 題組:2 難易度:易

(B) 86. "GIVEN:

Empty weight 1100 with Arm 30

Pilot (fwd seat) weight 170 with Arm -40

Passenger (aft seat) weight 160 with Arm +5

Ballast weight 50 with Arm -50

the CG is located at station"

(A)+17.55 (B)+16.55 (C)+15.55

原始題號:0014387 題組:3 難易度:易

- (A) 87. "GIVEN:
Empty weight 1100 with Arm 30
Pilot (fwd seat) weight 170 with Arm -40
Passenger (aft seat) weight 300 with Arm +5
Ballast weight 50 with Arm -50
the CG is located at station"
(A)+15.56 (B)+16.56 (C)+17.56

原始題號:0014388 題組:1 難易度:易

- (A) 88. "GIVEN:
Weight A - 155 pounds at 55 inches aft of datum
Weight B - 165 pounds at 155 inches aft of datum
Weight C - 95 pounds at 195 inches aft of datum
Based on this information, the CG would be located how far aft of datum?"
(A)126.8 inches (B)122.2 inches (C)124.5 inches

原始題號:0014389 題組:2 難易度:易

- (C) 89. "GIVEN:
Weight A - 155 pounds at 55 inches aft of datum
Weight B - 165 pounds at 155 inches aft of datum
Weight C - 95 pounds at 185 inches aft of datum
Based on this information, the CG would be located how far aft of datum?"
(A)120.5 inches (B)116.8 inches (C)124.5 inches

原始題號:0014390 題組:1 難易度:中

- (C) 90. "Given: MZFW=15830, MLDW=17000, MTOW=18370, DOW=10530, PAYLOAD=4950, TIF=1370, min TOF=1920, what is maximum extra fuel the airplane can carry for this flight ?"
(A)1990 (B)650 (C)970

原始題號:0014391 題組:2 難易度:中

- (A) 91. "Given: MZFW=15830, MLDW=17000, MTOW=18370, DOW=10950, PAYLOAD=3640, TIF=610, min TOF=1030, what is maximum extra fuel the airplane can carry for this flight ?"
(A)1990 (B)650 (C)970

原始題號:0014392 題組:1 難易度:中

- (A) 92. "Given: MZFW=130634, MLDW=145149, MTOW=170000, DOW=89886, TIF=20000, TOF=30000, what is the maximum allowed traffic load for this flight ?"
(A)40748 (B)40114 (C)38263

原始題號:0014393 題組:2 難易度:中

- (C) 93. "Given: MZFW=130634, MLDW=145149, MTOW=170000, DOW=89886, TIF=20000, TOF=40000, what is the allowed weight for take off for this flight ?"
(A)160634 (B)170000 (C)165149

原始題號:0014394 題組:3 難易度:中

- (B) 94. "Given: MZFW=130634, MLDW=145149, MTOW=170000, DOW=89886, TIF=30000, TOF=40000, what is the maximum allowed traffic load for this flight ?"
(A)40748 (B)40114 (C)38263

原始題號:0014395 題組:1 難易度:中

- (A) 95. "What is the maximum allowable weight that may be carried on a pallet which has the dimensions of 48 x 48 inches?
Floor load limit: 159 lbs/sq ft
Pallet weight: 63 lbs
Tiedown devices: 37 lbs"
(A)2444.0 pounds (B)2624.0 pounds (C)2464.0 pounds

原始題號:0014396 題組:2 難易度:中

- (B) 96. "What is the maximum allowable weight that may be carried on a pallet which has the dimensions of 48 x 48 inches?
Floor load limit: 169 lbs/sq ft
Pallet weight: 50 lbs
Tiedown devices: 30 lbs"
(A)"1,948.0 pounds" (B)2624.0 pounds (C)2784.0 pounds

原始題號:0014397 題組:1 難易度:中

- (B) 97. "What minimum floor load limit must an aircraft have to carry the following pallet of cargo?
Pallet size is 100 wide and 100 long
Pallet weight - 190 lb
Tiedown devices - 60 lb
Cargo weight - 12000 lb"
(A)166 lb/sq ft. (B)177 lb/sq ft. (C)188 lb/sq ft.

原始題號:0014398 題組:2 難易度:中

- (A) 98. "What minimum floor load limit must an aircraft have to carry the following pallet of cargo?
Pallet size is 68.9 wide and 88.7 long
Pallet weight - 161 lb
Tiedown devices - 54 lb
Cargo weight - 11810.5 lb"
(A)283 lb/sq ft. (B)223 lb/sq ft. (C)183 lb/sq ft.

原始題號:0014399 題組:3 難易度:中

- (B) 99. "What minimum floor load limit must an aircraft have to carry the following pallet of cargo?
Pallet size is 80 wide and 100 long
Pallet weight - 170 lb
Tiedown devices - 50 lb
Cargo weight - 10000 lb"
(A)182 lb/sq ft. (B)184 lb/sq ft. (C)183 lb/sq ft.

原始題號:0014400 題組:1 難易度:中

(B) 100. "GIVEN:

Total Weight 3037 lb
CG location Station 65.6
Fuel consumption 12.7 gal/hr
Fuel CG Station 68.0

After 1 hour 45 minutes of flight time, the CG would be located at station"

(A)64.86 (B)65.49 (C)66.54

原始題號:0014401 題組:2 難易度:中 (R20190702)

(C) 101. "GIVEN:

Total Weight 3900 lb
CG location Station 70
Fuel consumption 14 GPH
Fuel CG Station 60

After 2 hour 30 minutes of flight time, the CG would be located at station"

(A)71.13 (B)72.12 (C)70.57

原始題號:0014402 題組:3 難易度:中

(B) 102. "GIVEN:

Total Weight 4000 lb
CG location Station 70
Fuel consumption 14 GPH
Fuel CG Station 60

After 2 hour 30 minutes of flight time, the CG would be located at station"

(A)69.55 (B)70.55 (C)71.55

原始題號:0014403 題組:4 難易度:中 (R20190702)

(B) 103. "GIVEN:

Total Weight 4037 lb
CG location Station 68.7
Fuel consumption 12.7 gal/hr
Fuel CG Station 68.0

After 1 hour 45 minutes of flight time, the CG would be located at station"

(A)68.63 (B)68.72 (C)68.81

原始題號:0014404 題組:5 難易度:中

- (B) 104. "GIVEN:
Total Weight 4137 lb
CG location Station 72
Fuel consumption 13.7 GPH
Fuel CG Station 68.0
After 1 hour 30 minutes of flight time, the CG would be located at station"
(A)67.79 (B)72.12 (C)70.78

原始題號:0014405 題組:1 難易度:中

- (A) 105. "An aircraft is loaded to a gross weight of 4,800 pounds with three pieces of luggage in the rear baggage compartment. The CG is located 95 inches aft of datum, which is 1 inch aft of limits. If luggage which weights 90 pounds is moved from the rear baggage compartment (145 inches aft of datum) to the front compartment (45 inches aft of datum), what is the new CG?"
(A)93.13 inches aft of datum. (B)95.13 inches aft of datum. (C)94.13 inches aft of datum.

原始題號:0014406 題組:2 難易度:中

- (B) 106. "An aircraft is loaded to a gross weight of 4,800 pounds with three pieces of luggage in the rear baggage compartment. The CG is located 97 inches aft of datum, which is 1 inch aft of limits. If luggage which weights 90 pounds is moved from the rear baggage compartment (145 inches aft of datum) to the front compartment (45 inches aft of datum), what is the new CG?"
(A)96.13 inches aft of datum. (B)95.13 inches aft of datum. (C)94.13 inches aft of datum.

原始題號:0014407 題組:3 難易度:中

- (B) 107. "An aircraft is loaded to a gross weight of 4,800 pounds with three pieces of luggage in the rear baggage compartment. The CG is located 98 inches aft of datum, which is 1 inch aft of limits. If luggage which weights 500 pounds is moved from the rear baggage compartment (145 inches aft of datum) to the front compartment (45 inches aft of datum), what is the new CG?"
(A)93.13 inches aft of datum. (B)87.58 inches aft of datum. (C)83.58 inches aft of datum.

原始題號:0014408 題組:1 難易度:中

- (B) 108. "An aircraft is loaded with a ramp weight of 3,650 pounds and having a CG of 96.0, approximately how much baggage would have to be moved from the rear baggage area at station 180 to the forward baggage area at station 40 in order to move the CG to 92.0?"
(A)52.14 pounds. (B)104.29 pounds. (C)78.14 pounds.

原始題號:0014409 題組:2 難易度:中 (R20190702)

- (C) 109. "An aircraft is loaded with a ramp weight of 3,650 pounds and having a CG of 96.0, approximately how much baggage would have to be moved from the rear baggage area at station 180 to the forward baggage area at station 60 in order to move the CG to 94.0?"
(A)73.0 pounds. (B)36.5 pounds. (C)60.83 pounds.

原始題號:0014410 題組:3 難易度:中

- (B) 110. "An aircraft is loaded with a ramp weight of 3,650 pounds and having a CG of 96.0, approximately how much baggage would have to be moved from the rear baggage area at station 180 to the forward baggage area at station 80 in order to move the CG to 95.0?"
(A)52.14 pounds. (B)36.5 pounds. (C)26.07 pounds.

原始題號:0014411 題組:0 難易度:中

- (D) 111. The limit of Zero Fuel Weight is to prevent:
(A)insufficient fuel. (B)extra fuel. (C)airplane overweight (D)damage to airplane structure.

原始題號:0014412 題組:0 難易度:中

- (B) 112. "When an airplane gross weight is heavier, then the shift of cargo or passenger will affect the balance of airplane:"
(A)more. (B)less. (C)same. (D)not affected.

原始題號:0014413 題組:0 難易度:中

- (A) 113. What kinds of factor will reduce an airplane maximum takeoff weight ?
(A)High temperature or tail wind takeoff. (B)Low temperature or head wind takeoff. (C)High temperature and tail wind takeoff.

原始題號:0014414 題組:0 難易度:中

- (D) 114. If an airplane MAC is 124 inches and the C.G of FWD LIMIT and AFT LIMIT are 22% and 41%. The range of CG is ?
(A)78.12 inches (B)27.28 inches (C)50.84 inches (D)23.56 inches

原始題號:0014415 題組:0 難易度:中

- (C) 115. An airplane maximum gross weight is the sum of
(A)"airplane, passengers, and crew members" (B)"airplane, passengers, crew members, and cargo." (C)a list of the airplane specification that includes the airplane and the maximum certificated weight of its inside parts. (D)CAA certification that includes the airplane and the maximum certificated weight of its inside parts.

原始題號:0014416 題組:0 難易度:中

- (B) 116. "An airplane gross weight is 125000 lbs, CG exceeds AFT LIMIT for 4 inches. If we shift some cargo from 720 inches station to 420 inches station, make the CG shift "
(A)1621 lbs (B)1667lbs (C)1686lbs (D)1766lbs

原始題號:0014417 題組:0 難易度:中

- (D) 117. "An airplane gross weight is 146000 lbs. If we load cargo in the after cargo compartment, the CG is at 702 inches. Now, we want to shift CG 3 inches forward, how many cargo we need to shift to forward cargo compartment ? (forward cargo compartment at 510 inches, after cargo compartment at 1030 inches)" (A)629lbs (B)734lbs (C)769lbs (D)842lbs

原始題號:0014418 題組:0 難易度:易

- (A) 118. "To compute the balance between a 10 lbs and a 20 lbs objects , the arm of a 10 lbs object should ____ far than the arm of a 20 lbs object." (A)2 times (B)3 times (C)5 times (D)4 times

原始題號:0014419 題組:0 難易度:易

- (D) 119. What kind of percentage do we usually use to represent CG ? (A)Chord (B)Inch (C)Index (D)MAC

原始題號:0014420 題組:0 難易度:易 (R20180823)

- (C) 120. "The sum of airplane net weight, oil, crews and their baggage, cabin and emergency equipments is : " (A)Basic Operation Weight (B)Gross Weight (C)Dry Operating Weight (D)Zero Fuel Weight