

1. What is the  $V_{ne}$  for C172R?  
**163KIAS**
2. What is the  $V_{no}$  for C172R?  
**129KIAS**
3. What is the  $V_a$  for C172R at 2450lbs?  
**99KIAS**
4. What is the  $V_a$  for C172R at 2200lbs?  
**94KIAS**
5. What is the  $V_a$  for C172R at 1600lbs?  
**82KIAS**
6. What is the  $V_{fe}$  (flap 10) for C172R?  
**110KIAS**
7. What is the  $V_{fe}$  (flap >10) for C172R?  
**85KIAS**
8. What is the EFATO speed (no flap) for C172R?  
**65KIAS**
9. What is the EFATO speed (flap) for C172R?  
**60KIAS**
10. What is the best glide speed for C172R?  
**65KIAS**
11. What is the prec-search speed for C172R?  
**60KIAS**
12. What is the no power landing speed (no flap) for C172R?  
**65KIAS**
13. What is the no power landing speed (flap) for C172R?  
**60KIAS**
14. What is the  $V_x$  for C172R?  
**60KIAS**

15. What is the  $V_y$  for C172R?  
**79KIAS**
16. What is the short-field take-off speed for C172R?  
**57KIAS**
17. What is the stall speed (no flap) for C172R?  
**44KIAS**
18. What is the stall speed (flap 10) for C172R?  
**37KIAS**
19. What is the stall speed (flap 30) for C172R?  
**33KIAS**
20. What is the maximum crosswind for C172R?  
**15 knots**
21. What is the  $V_{ne}$  for C172S?  
**163KIAS**
22. What is the  $V_{no}$  for C172S?  
**129KIAS**
23. What is the  $V_a$  for C172S at 2550lbs?  
**105KIAS**
24. What is the  $V_a$  for C172S at 2200lbs?  
**98KIAS**
25. What is the  $V_a$  for C172S at 1600lbs?  
**90KIAS**
26. What is the  $V_{fe}$  (flap 10) for C172S?  
**110KIAS**
27. What is the  $V_{fe}$  (flap >10) for C172S?  
**85KIAS**
28. What is the EFATO speed (no flap) for C172S?  
**70KIAS**
29. What is the EFATO speed (flap) for C172S?  
**65KIAS**

30. What is the best glide speed for C172S?  
**68KIAS**
31. What is the prec-search speed for C172S?  
**65KIAS**
32. What is the no power landing speed (no flap) for C172S?  
**70KIAS**
33. What is the no power landing speed (flap) for C172S?  
**65KIAS**
34. What is the  $V_x$  for C172S?  
**62KIAS**
35. What is the  $V_y$  for C172S?  
**74KIAS**
36. What is the short-field take-off speed for C172S?  
**61KIAS**
37. What is the stall speed (no flap) for C172S?  
**48KIAS**
38. What is the stall speed (flap 10) for C172S?  
**43KIAS**
39. What is the stall speed (flap 30) for C172S?  
**40KIAS**
40. What is the maximum crosswind for C172S?  
**15 knots**
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## Form 61-1486 and 61-1495

### A self-made exam

1. What are the privileges and limitations of the recreational pilot licence with aeroplane category rating?
  - can carry passengers if at least 3 take-offs and landings within previous 90 days [CASR61.395]

- pilot holds and carries [CASR61.420(b)] class 1 or 2 medical certificate or RAMCP under conditions in subparagraph 2 [CASR61.405]
  - pilot must carry documents; licence, medical certificate, maintenance release, pilot operating handbook
  - must have English proficiency assessment [CASR61.422]
  - pilot only registered aircraft [CASR61.425]
  - airspace within 25nm of departure aerodrome, within flight training area and direct between departure aerodrome and flight training area [CASR61.427]
  - single-engine aircraft, MTOW  $\leq$  1500kg, day VFR, private operation or flight training [CASR61.460]
2. What are the drug and alcohol regulations?
    - 8 hours from consumption of alcohol to departure [CASR99]
    - not intoxicated; 0.02 grams per 210 litres of breath [CASR99]
    - crew will not consume while on board [CASR99]
    - consult DAME regarding use of drugs [CASR99]
  3. What are the VFR aircraft instrument requirements?
    - airspeed indicator [CAO20.18(10) and CAO20.18(Appendix 1)]
    - altimeter [CAO20.18(10) and CAO20.18(Appendix 1)]
    - direct or remote magnetic compass [CAO20.18(10) and CAO20.18(Appendix 1)]
    - timepiece with hours, minutes, seconds [CAO20.18(10) and CAO20.18(Appendix 1)]
  4. What are the emergency equipment requirements?
    - life jackets when over water and out of glide [CAO20.11(5.1)]
    - sufficient life raft(s) when minimum of (30 minutes cruise) and (100nm) [CAO20.11(5.2.1)]
    - if life raft required, 1 ELT and pyro distress signals [CAO20.11(6.1)]
    - if more than one life raft required, then  $\geq$  2 (approved ELT under reg 252A) transmitters 121.5MHz and 243MHz and stowed ready for use [CAO20.11(6.1)]
    - single-engine, over water, not equipped with radio or incapable of air-to-ground radio, not required to carry a life raft, shall carry ELT (121.5MHz and 243MHz approved under reg 252A) [CAO20.11(6.2)]
  5. What emergency procedures must the passengers be briefed on [CAO20.11(14)]?
    - smoking requirements [CAO20.11(14.1.1)]
    - use of seat belts [CAO20.11(14.1.1)]
    - location of emergency exits [CAO20.11(14.1.1)]
    - use of oxygen where applicable [CAO20.11(14.1.1)]

- use of floatation devices where applicable [*CAO20.11(14.1.1)*]
  - stowage of luggage [*CAO20.11(14.1.1)*]
  - onboard survival equipment [*CAO20.11(14.1.1)*]
6. What are the fuel and oil requirements for flight?
- PiC must take steps to ensure sufficient fuel and oil [*CAR1988(234)*]
  - Fixed fuel reserve for VFR, aeroplane, piston-engine: 45 minutes [*CAAP 234-1(1)*]
  - 5-8 quarts of oil [*Cessna 172 PoH Section 8 CAPACITY OF ENGINE SUMP*]
7. What are cargo and passenger loading requirements?
- cargo on or above floor shall be restrained [*CAO20.16.2(3)*]
  - cargo shall not obstruct flight controls [*CAO20.16.2(4.1)*], emergency exits [*CAO20.16.2(4.2)*]
  - cargo on a passenger seat shall evenly distribute weight, not exceeding 77kg [*CAO20.16.2(5.1)*] and restrained [*CAO20.16.2(5.2)*]
  - cargo on unoccupied control seat shall not exceed 77kg [*CAO20.16.2(6.2)*], restrained [*CAO20.16.2(6.4)*], flight controls removed if easy [*CAO20.16.2(6.3.1)*], not interfere with aircraft operation [*CAO20.16.2(6.3)*]
  - seat belts during take-off, landing, < 1000ft AGL, turbulence [*CAO20.16.3(4.1)*]
  - one pilot crew wearing seat belt at all times [*CAO20.16.3(4.2)*]
  - seats upright during take-off and landing [*CAO20.16.3(5.1)*]
  - passenger in control seat must be given instruction, no interfere with flight controls [*CAO20.16.3(11.1)*]
  - two infants (<=3 years of age) may be carried on one seat with total weight <= 77kg [*CAO20.16.3(13.1)*]
8. What are the privileges and limitations of the single engine aeroplane class rating?
- pilot licence must demonstrate competency of part 61 MoS [*CASR61.400*]
  - flight review every 24 months, within 3 months of expiry, and valid to the end of that month [*CASR61.745*]
9. What requirement applies to take-off and landing distances?
- Add 15% to all take-off and landing distances for MTOW <= 2000kg [*CAO20.7.4(6.1)*]
10. What documents must be carried?
- Maintenance release
  - Pilot Operating Handbook

- **Aviation Medical Certificate**
- **Pilot Licence**