

Exam simulation

PPL(H) - Private Pilot License - Meteorology



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STUDENT NAME:

DATE AND TIME:

01. Which of the following messages has the highest priority?

- a) Turn left
- b) Wind 300 degrees, 5 knots
- c) Request QDM
- d) QNH 1013

02. Why is a helicopter's climb initially accelerated after an increase of the pitch angle?

- a) The larger pitch angle causes a decrease and a compression of the airflow until the climb rate corresponds to the induced velocity through the main rotor disc
- b) The inertia of the air increases the effective angle of attack temporarily until an additional component of the climb rate reduces the effective angle of attack again
- c) The initially high airflow increases the rotor thrust until the lower air density reduces the rotor thrust again
- d) The conversion of energetic air into kinetic rotor energy decreases continuously with increasing density altitude

03. Which statement about overtaking is correct?

- a) The aircraft being overtaken must descend.
- b) The overtaking aircraft must keep out of the way of the aircraft being overtaken.
- c) The faster aircraft has priority.
- d) The aircraft on the left always has priority.

04. Which altitude is displayed on the altimeter when set to a specific QNH?

- a) Altitude in relation to mean sea level
- b) Altitude in relation to the air pressure at the reference aerodrome
- c) Altitude in relation to the 1013.25 hPa datum
- d) Altitude in relation to the highest elevation within 10 km

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05. The planned distance is 84 NM and groundspeed is 84 kt. What is the approximate flight time?

- a) 52 minutes
- b) 70 minutes
- c) 78 minutes
- d) 60 minutes

06. Which statement about standard phraseology is correct?

- a) It is used only in written exams.
- b) It reduces ambiguity and communication errors.
- c) It should be replaced by slang when workload is high.
- d) It is unnecessary in uncontrolled airspace.

07. A heading of 285 degrees is correctly transmitted as...

- a) Two eight five.
- b) Two hundred eight five
- c) Two hundred eighty-five.
- d) Two eight five hundred.

08. What should a PPL(H) pilot do when operating close to a TMZ?

- a) Assume it is inactive unless ATC calls first.
- b) operate the required transponder mode and code.
- c) Switch off the transponder to reduce workload.
- d) Ignore it when flying VFR below 1,000 ft AGL.

09. Exceeding the maximum allowed aircraft mass is...

- a) Only relevant if the excess is more than 10 %.
- b) Exceptionally permissible to avoid delays.
- c) Compensated by the pilot's control inputs.
- d) Not permissible and essentially dangerous.

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10. A helicopter burns 28 l/h. Planned flight time is 80 minutes and required reserve is 25 l. What minimum fuel should be planned?

- a) 38 l
- b) 50 l
- c) 71 l
- d) 63 l

11. What might be the reason for scratches on the tail stringer?

- a) Old colour
- b) Intense erosion
- c) Rotor blade contact
- d) Contact with ground

12. Which statement about a position report is correct?

- a) It should include passenger nationality.
- b) It replaces lookout.
- c) It is used only after landing.
- d) It should include relevant position, altitude and intentions where required.

13. Which of the following frequencies lies in the aviation VHF voice communication band?

- a) 118.75 MHz
- b) 327.25 MHz
- c) 327.25 kHz
- d) 118.75 kHz

14. Of what shape is a landing direction indicator?

- a) T
- b) An angled arrow
- c) A straight arrow
- d) L

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15. Which human-factor point is most relevant? A pilot becomes overloaded during an abnormal indication.

- a) The event has no operational relevance.
- b) The correct response is to increase workload.
- c) Aviate, navigate and communicate should be prioritised.
- d) The pilot should ignore symptoms until after landing.

16. Which statement about a restricted area is correct?

- a) It may be entered only in accordance with the published restrictions.
- b) It may never be entered under any circumstances.
- c) It is always uncontrolled airspace with no requirements.
- d) It exists only above FL 195.

17. The range of NDBs transmitting in the medium frequency range is greatest...

- a) On midday.
- b) Before midday.
- c) In the daytime.
- d) At night.

18. What must be considered for cross-border flights?

- a) Regular location messages
- b) Approved exceptions
- c) Transmission of hazard reports
- d) Requires flight plans

19. What aerodynamic effect is most relevant? The helicopter accelerates through effective translational lift.

- a) less power may be required for the same lift.
- b) The altimeter setting becomes invalid.
- c) The magnetic compass becomes the primary lift source.
- d) The aircraft mass automatically decreases.

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20. A deceleration during a straight horizontal flight can lead to the illusion of...

- a) An inverted flight.
- b) A descent.
- c) A climb.
- d) A bank.

21. Given: QDM: 248° VAR: 10° W The QTE is...

- a) 238°.
- b) 258°.
- c) 078°.
- d) 058°.

22. How do spread and relative humidity change with increasing temperature?

- a) Spread increases, relative humidity decreases
- b) Spread remains constant, relative humidity increases
- c) Spread increases, relative humidity increases
- d) Spread remains constant, relative humidity decreases

23. Which statement about low rotor RPM is correct?

- a) Increase collective to load the rotor further.
- b) Switch off all radios first.
- c) Reduce collective as required and recover RPM according to the flight manual.
- d) Ignore it if airspeed is low.

24. The total weight of an aircraft is acting vertically through the...

- a) Centre of gravity.
- b) Centre of pressure.
- c) Neutral point.
- d) Stagnation point.

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25. The virtual rotation axis of a rotor is...

- a) Perpendicular to the hub plane
- b) Parallel with the main rotor shaft
- c) Perpendicular to the tip path plane
- d) Perpendicular to the plane which contains the swash plate

26. The pitch angle of a tail rotor blade is changed...

- a) Cyclically
- b) Collectively
- c) Symmetrically
- d) Asymmetrically

27. The distance between the centre of gravity and the datum is called...

- a) Lever.
- b) Balance arm.
- c) Torque.
- d) Span width.

28. How can a pilot confirm a search and rescue signal on ground in flight?

- a) Push the rudder in both directions multiple times
- b) Fly in a parabolic flight path multiple times
- c) Rock the wings
- d) Deploy and retract the landing flaps multiple times

29. Which action best supports safe management of heading log preparation?

- a) Delay the decision until after take-off.
- b) Prepare headings, times and fuel checks before departure.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

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30. Which components do rotor blades made of wood contain?

- a) Spar of wood, filling material of plastic, and outer skin of wood
- b) Spar of wood, filling material of wood, and outer skin of plastic
- c) Spar of metal, filling material of metal, and erosion protection of wood
- d) Spar of metal, filling material of wood and erosion protection of metal

31. Two aircraft of the same type, same gross weight and same flap configuration fly with different speeds and altitude. Which aircraft will cause more wake turbulence?

- a) The aircraft flying at a lower altitude
- b) The aircraft flying at a higher altitude
- c) The aircraft flying at lower speed.
- d) The aircraft flying at higher speed.

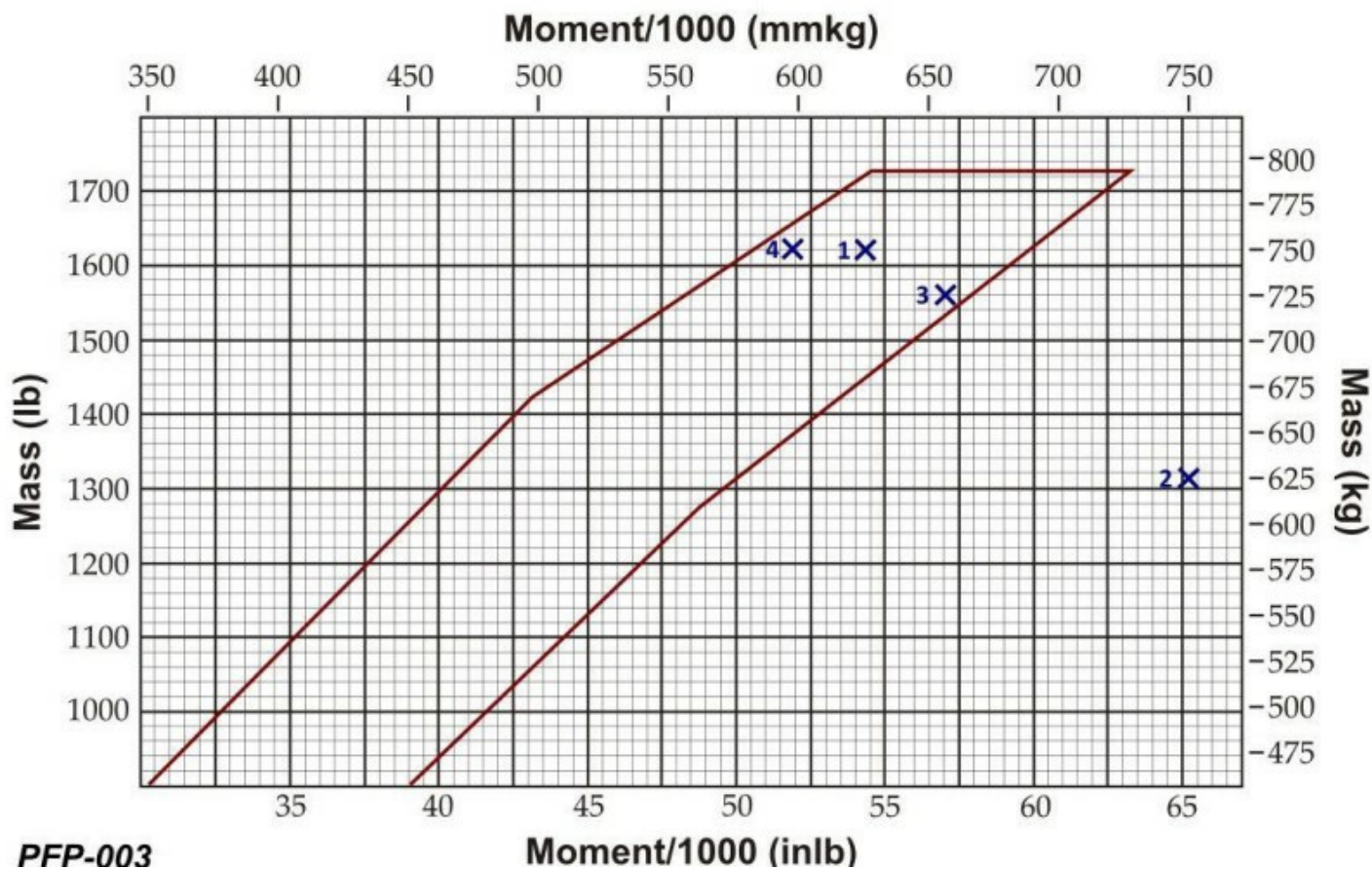
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32. For the purpose of a flight preparation, the pilot calculates a total take-off mass of 750 kg and a total moment of 625 mmkg. Which cross marks the centre of gravity (CG)? Use figure (PFP-003)



- a) 1
- b) 3
- c) 4
- d) 2

33. What needs to be observed in conjunction with a flight on a hot day?

- a) Thermal updraft should be used over uninhabited areas
- b) Low density of the provided fuel should be observed during refueling
- c) Outside air temperature and pressure altitude should be considered in particular
- d) Air-fuel mixture in the climb and cruise should be fully enriched

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34. The position of the centre of gravity equals... Use figure (PFP-052e)

ITEM	MASS	ARM
Basic Empty Mass	3.156 lb	135,33 in
Front Seats	320 lb	135,50 in
Rear Seats	340 lb	177,00 in
Baggage	80 lb	248,23 in
Fuel	321,5 lb	150,31 in

- a) 142 in.
- b) 137.5 in.
- c) 147.5 in.
- d) 145.7 in.

35. What phrase is used by a pilot if a transmission is to be answered with "no"?

- a) Finish
- b) No
- c) Not
- d) Negative

36. What is the call sign of the aerodrome control?

- a) Aerodrome
- b) Ground
- c) Tower
- d) Control



37. The mast bearing on the upper gearbox output acts against...

- a) Torsions.
- b) Torques.
- c) Traction and bending forces.
- d) Contact pressure.

38. Which of the following factors affects the reception of VHF transmissions?

- a) Height of ionosphere
- b) Twilight error
- c) Altitude
- d) Shoreline effect

39. Which of the following is responsible for the blood coagulation?

- a) White blood cells (leucocytes)
- b) Blood plates (thrombocytes)
- c) Red blood cells (erythrocytes)
- d) Capillaries of the arteries

40. What is a likely consequence of fuel vent blockage?

- a) fuel flow to the engine may be restricted.
- b) The altimeter automatically resets to standard pressure.
- c) The aircraft becomes exempt from maintenance requirements.
- d) The transponder changes to emergency code automatically.

41. How can a wind direction indicator be marked for better visibility?

- a) The wind direction indicator could be surrounded by a white circle.
- b) The wind direction indicator could be made from green materials.
- c) The wind direction indicator may be mounted on top of the control tower.
- d) The wind direction indicator could be located on a big black surface.

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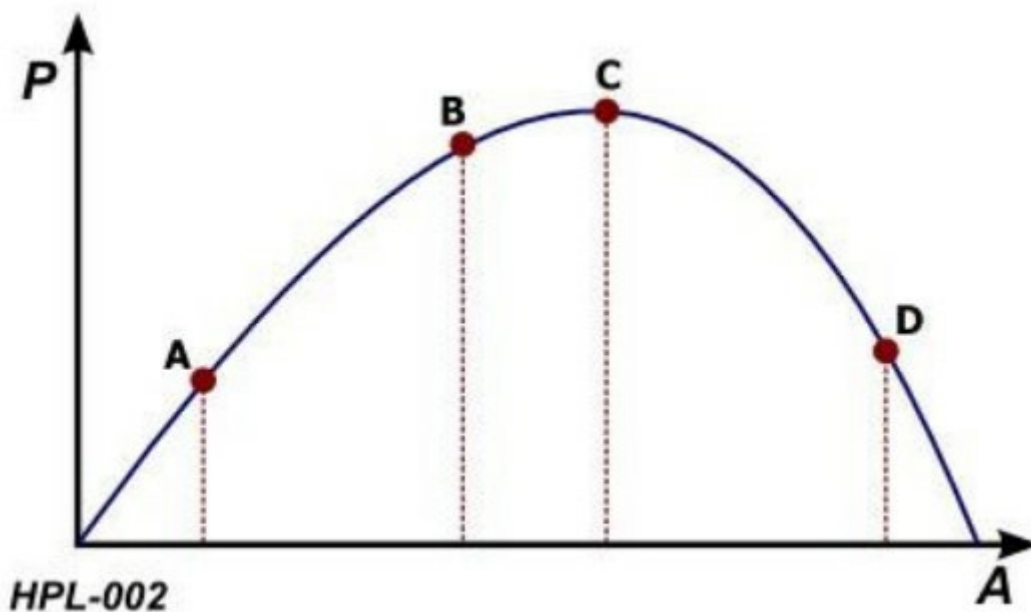


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42. What is the correct designation of the frequency band from 118.000 to 136.975 MHz used for voice communication?

- a) HF
- b) LF
- c) MF
- d) VHF

43. At which point in the diagram will a pilot find himself to be overstrained? Use figure (HPL-002) P = Performance A = Arousal / Stress



- a) Point A
- b) Point B
- c) Point D
- d) Point C

44. What kind of helicopter needs a tail rotor?

- a) Single-rotor helicopter with shaft drive
- b) Twin-rotor helicopter with counter-rotating main rotors
- c) Single-rotor helicopter with blade drive
- d) Twin-rotor autogyro with counter-rotating main rotors



45. What is a likely consequence of low hydraulic pressure?

- a) The altimeter automatically resets to standard pressure.
- b) The aircraft becomes exempt from maintenance requirements.
- c) control forces may increase on hydraulically boosted systems.
- d) The transponder changes to emergency code automatically.

46. Which statement about minimum heights is correct?

- a) They never apply to helicopters.
- b) They may be reduced only where the rules allow, such as take-off, landing or authorised operations.
- c) They are decided only by the passenger.
- d) They are replaced by local QNH.

47. Regularity messages are messages...

- a) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation.
- b) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- c) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- d) Sent by an aircraft operating agency or an aircraft of immediate concern to an aircraft in flight.

48. Weather phenomena are most common to be found in which atmospheric layer?

- a) Troposphere
- b) Tropopause
- c) Stratosphere
- d) Thermosphere

49. Which statement about loose objects in the cabin is correct?

- a) They are harmless in hover.
- b) They should be secured because they can interfere with controls or injure occupants.
- c) They improve balance automatically.
- d) They may be placed near pedals.



50. What behaviour does a helicopter without stabilization systems show after external disturbances in a hover, without a corrective action?

- a) Statically stable and dynamically instable
- b) Statically stable and dynamically stable
- c) Statically indifferent and dynamically instable
- d) Statically stable and dynamically indifferent

51. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?

- a) Both have to divert to the right
- b) The lighter one has to climb
- c) Both have to divert to the left
- d) The heavier one has to climb

52. Which statement about a circuit breaker is correct?

- a) It is used to adjust blade tracking.
- b) It increases fuel pressure mechanically.
- c) It sets the altimeter to QFE.
- d) It protects an electrical circuit from excessive current.

53. What aerodynamic effect is most relevant? Forward speed approaches the never-exceed speed.

- a) The altimeter setting becomes invalid.
- b) The magnetic compass becomes the primary lift source.
- c) The aircraft mass automatically decreases.
- d) retreating blade stall and structural limits become important.

54. What is the meaning of a flashing white light to an aircraft on the ground?

- a) Cleared for take-off.
- b) Make a right-hand circuit.
- c) Return to starting point on the aerodrome.
- d) Squawk 7600 immediately.



55. What has to be considered when taking off in a ground inversion?

- a) Due to low temperatures close to the ground, icing has to be expected
- b) Climb should be performed with the lowest possible speed and maximum power
- c) During the climb, a sudden increase in speed and climb performance has to be expected
- d) During climb, a sudden decrease in speed and climb performance has to be expected

56. What is the main safety effect of increased stability in a helicopter?

- a) It increases the maximum permitted helicopter mass.
- b) It improves control under negative load factors.
- c) It always reduces the required control forces.
- d) It improves general flight safety.

57. Which statement about a rhumb line is correct?

- a) A rhumb line is a great circle intersecting the equator with 45° angle
- b) The centre of a complete cycle of a rhumb line is always the Earth's centre
- c) A rhumb line cuts each meridian at the same angle
- d) The shortest track between two points along the Earth's surface follows a rhumb line

58. Which are the properties of a Mercator chart?

- a) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- b) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines
- c) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- d) The scales increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

59. What is the advantage of a pushing tail rotor over a pulling tail rotor?

- a) Gain of thrust by Coanda and Magnus effect due to the airflow around the tail boom
- b) Effective airflow of tail rotor blades by using the downwash
- c) Less thrust loss by free outflow of the accelerated air mass
- d) Self-compensating anti-torque operation by using the downwash



60. Increasing a helicopter's mass will...

- a) Increase the climb path angle.
- b) Decrease the rate of climb.
- c) Increase the lift coefficient.
- d) Decrease the power available.

61. An acceleration during a straight horizontal flight can lead to the illusion of...

- a) A bank.
- b) A descent.
- c) A climb.
- d) An inverted flight.

62. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200°. What are the TH and the DEV?

- a) TH: 194°. DEV: negative 002°.
- b) TH: 172°. DEV: positive 002°.
- c) TH: 194°. DEV: positive 002°.
- d) TH: 172°. DEV: negative 002°.

63. What does the abbreviation "H24" stand for?

- a) Sunset to sunrise
- b) 24 h service
- c) No specific opening times
- d) Sunrise to sunset

64. Which action best supports safe management of anti-torque demand?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Anticipate pedal input when changing collective.
- d) Ignore it when the helicopter has sufficient fuel.



65. Which of the following factors could cause an erroneous airspeed indication?

- a) The boost pressure line is defective
- b) The aircraft is covered with adhesive foils
- c) A circuit breaker was pulled
- d) The earth wire is still attached

66. What is a likely consequence of low outside temperature?

- a) The altimeter automatically resets to standard pressure.
- b) The aircraft becomes exempt from maintenance requirements.
- c) The transponder changes to emergency code automatically.
- d) true altitude may be lower than indicated altitude.

67. What is a likely consequence of blocked pitot tube with drain and static ports open?

- a) the airspeed indication may decrease towards zero.
- b) The altimeter automatically resets to standard pressure.
- c) The aircraft becomes exempt from maintenance requirements.
- d) The transponder changes to emergency code automatically.

68. The term "aerodrome elevation" is defined as...

- a) The highest point of the landing area.
- b) The lowest point of the landing area.
- c) The average value of the height of the manoeuvring area.
- d) The highest point of the apron.

69. The character of an air mass is given by what properties?

- a) Region of origin and track during movement
- b) Environmental lapse rate at origin
- c) Temperatures at origin and present region
- d) Wind speed and tropopause height

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70. Which statement about wind correction angle is correct?

- a) It is an altimeter correction.
- b) It is used only during hover.
- c) It is applied to heading to maintain the desired track.
- d) It is the difference between QNH and QFE.

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Response Scheme

Compare your answers with the following diagram and mark your score!

01: C	02: B	03: B	04: A
05: D	06: B	07: A	08: B
09: D	10: D	11: D	12: D
13: A	14: A	15: C	16: A
17: D	18: D	19: A	20: B
21: D	22: A	23: C	24: A
25: C	26: B	27: B	28: C
29: B	30: D	31: C	32: A
33: C	34: A	35: D	36: C
37: C	38: C	39: B	40: A
41: A	42: D	43: C	44: A
45: C	46: B	47: A	48: A
49: B	50: A	51: A	52: D
53: D	54: C	55: D	56: D
57: C	58: C	59: C	60: B
61: C	62: A	63: B	64: C
65: B	66: D	67: A	68: A
69: A	70: C		

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Response form

Use this form to mark your answers

01: _____	02: _____	03: _____	04: _____
05: _____	06: _____	07: _____	08: _____
09: _____	10: _____	11: _____	12: _____
13: _____	14: _____	15: _____	16: _____
17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____
25: _____	26: _____	27: _____	28: _____
29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
41: _____	42: _____	43: _____	44: _____
45: _____	46: _____	47: _____	48: _____
49: _____	50: _____	51: _____	52: _____
53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____		