

Exam simulation

FAA Part 107 Drone Exam Prep - Airspace Classification



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STUDENT NAME:

DATE AND TIME:

01. Under what condition will the air become fully saturated?

- a) When the temperature drops to equal the dew point.
- b) When the barometric pressure drops below 29.92 Hg.
- c) When the temperature rises significantly above the dew point.

02. When a pilot feels that they have no control over their situation and leaves the action to others, they are exhibiting which hazardous attitude?

- a) Impulsivity.
- b) Invulnerability.
- c) Resignation.

03. Fog that forms on clear, calm, cool nights over flat, low-lying areas is known as:

- a) Advection fog.
- b) Radiation fog.
- c) Upslope fog.

04. What does the abbreviation 'WS' indicate in a TAF?

- a) Non-convective low-level wind shear.
- b) Widespread smoke.
- c) Water spouts.

05. What is the purpose of an Alert Area?

- a) To alert pilots to military live-fire exercises.
- b) To inform nonparticipating pilots of areas that may contain a high volume of pilot training or an unusual type of aerial activity.
- c) To notify pilots of presidential movements.

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06. Which phase of flight is statistically the most dangerous and requires the highest level of vigilance?

- a) Takeoff and landing.
- b) Cruising at 400 feet.
- c) Hovering in place.

07. During a crash, the lithium battery in your UAV is dislodged from its compartment and is found on the ground, 5 feet from the aircraft. You notice a dent in the battery, what should you do?

- a) Discard battery regardless of condition.
- b) Assess the condition of the battery and cautiously proceed, following manufacturer's recommendations.
- c) Perform a test flight to ensure that all items are working properly.

08. What is 'Aeronautical Decision Making' (ADM)?

- a) A set of FAA rules for airspace authorizations.
- b) The computer algorithm used by the drone's autopilot.
- c) A systematic approach to the mental process used by pilots to consistently determine the best course of action in response to a given set of circumstances.

09. The purpose of calculating weight and balance before flight is to ensure:

- a) The drone looks aesthetically balanced for photography.
- b) The payload is heavy enough to resist strong winds.
- c) The aircraft remains within its structural and aerodynamic limits for safe control.

10. You are checking LAANC for authorization to fly in Class C airspace. The grid you want to fly in shows a '0'. What does this mean?

- a) Auto-approval is not available; you must apply for further coordination via DroneZone or a LAANC USS.
- b) Flight is strictly prohibited and no authorization will ever be granted.
- c) You can fly up to 400 feet, as the 0 means no manned aircraft are present.

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11. During a preflight inspection, you notice your LiPo battery is slightly swollen or puffy. What should you do?

- a) Use it for short flights only.
- b) Compress it gently to flatten it out before flying.
- c) Do not fly with it, safely discharge it, and dispose of it properly, as it poses a severe fire risk.

12. Which of the following conditions results in the highest density altitude?

- a) Low temperature, low humidity, and high barometric pressure.
- b) High temperature, low humidity, and high barometric pressure.
- c) High temperature, high humidity, and low barometric pressure.

13. What illusion is created when a pilot flies over a featureless terrain (like a calm lake or snow-covered field)?

- a) The pilot may think the aircraft is higher than it actually is.
- b) The pilot may think the aircraft is flying faster than it actually is.
- c) The pilot may experience autokinesis.

14. How are Temporary Flight Restrictions (TFRs) disseminated to the aviation community?

- a) Via Sectional Aeronautical Charts.
- b) Through local television broadcasts.
- c) Via Notice to Air Missions (NOTAMs).

15. How should you pronounce the letter 'N' using the standard phonetic alphabet over aviation radios?

- a) Nancy.
- b) November.
- c) Niner.

16. What signals the beginning of the mature stage of a thunderstorm?

- a) Precipitation falling to the surface.
- b) The formation of an anvil cloud top.
- c) The cessation of lightning.

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17. When can a remote PIC fly a drone at night?

- a) If the drone has any type of LED lights.
- b) If the drone is equipped with anti-collision lights visible for 3 SM and the PIC has completed updated training/testing.
- c) Only with a specific nighttime waiver from the FAA.

18. When water vapor condenses, what typically forms?

- a) Strong winds.
- b) Clouds and fog.
- c) A temperature inversion.

19. Which of the following describes a cold front?

- a) A mass of warm air replacing a mass of cold air.
- b) Two air masses colliding and remaining stationary.
- c) A mass of cold, dense, and stable air advancing and replacing a body of warmer air.

20. Which airspace is considered uncontrolled airspace under Part 107?

- a) Class E.
- b) Class D.
- c) Class G.

21. Frost on the wings or propellers of a small UAS will:

- a) Disrupt the smooth flow of air, reducing lift and increasing drag, potentially preventing takeoff.
- b) Have no significant aerodynamic effect, though it adds slight weight.
- c) Increase lift by changing the camber of the airfoil.

22. If the altimeter setting at your local airport drops rapidly from 29.92 to 29.50, what kind of weather system is likely approaching?

- a) A low-pressure system, which typically brings cloudy, unsettled weather and precipitation.
- b) A high-pressure system, which brings clear skies.
- c) A massive temperature inversion.

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23. The "runway hold position" sign denotes

- a) an area protected for an aircraft approaching a runway.
- b) an entrance to runway from a taxiway.
- c) intersecting runways.

24. What are the four forces that act on an aircraft in flight?

- a) Lift, weight, thrust, and drag.
- b) Lift, gravity, power, and friction.
- c) Lift, weight, speed, and drag.

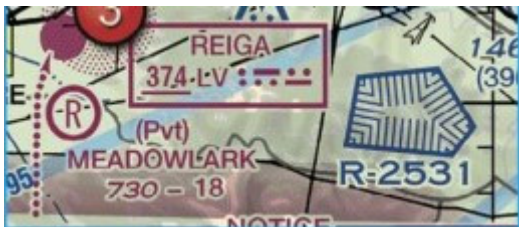
25. Can you carry hazardous materials on a small UAS under Part 107?

- a) Yes, if securely fastened.
- b) Yes, if you have a hazardous materials endorsement.
- c) No, carrying hazardous materials is explicitly prohibited.

26. You are feeling pressured by your client to fly your drone to get a specific shot, even though the wind is exceeding the manufacturer's safe limits. Which hazardous attitude is this situation likely to trigger if you comply?

- a) Resignation.
- b) Anti-authority.
- c) Macho or Impulsivity.

27. Where would you go to obtain more information about restricted airspace R-2531?



- a) Chart Supplements/Airport Facilities Directory.
- b) Notes to Sectional Charts.
- c) Aeronautical Information Manual (AIM).

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28. While checking out your planned area of operations on a sectional chart, you notice that gray arrows nearby labeled “VR1667” and “VR1668.” Do these symbols represent a hazard to your operations?

- a) No, these only indicate the groundspeed of aircraft passing by the area.
- b) Yes, these indicate military exercises at below 1500 feet AGL.
- c) No, these indicate military exercises at above 1500 feet AGL.

29. What is a recommended practice when flying a small UAS in very cold temperatures?

- a) Keep the batteries in a warm environment (like a heated car or inside your jacket) until immediately before the flight.
- b) Pre-chill the batteries outside to acclimate them to the weather.
- c) Discharge the battery to 50% before flying to prevent freezing.

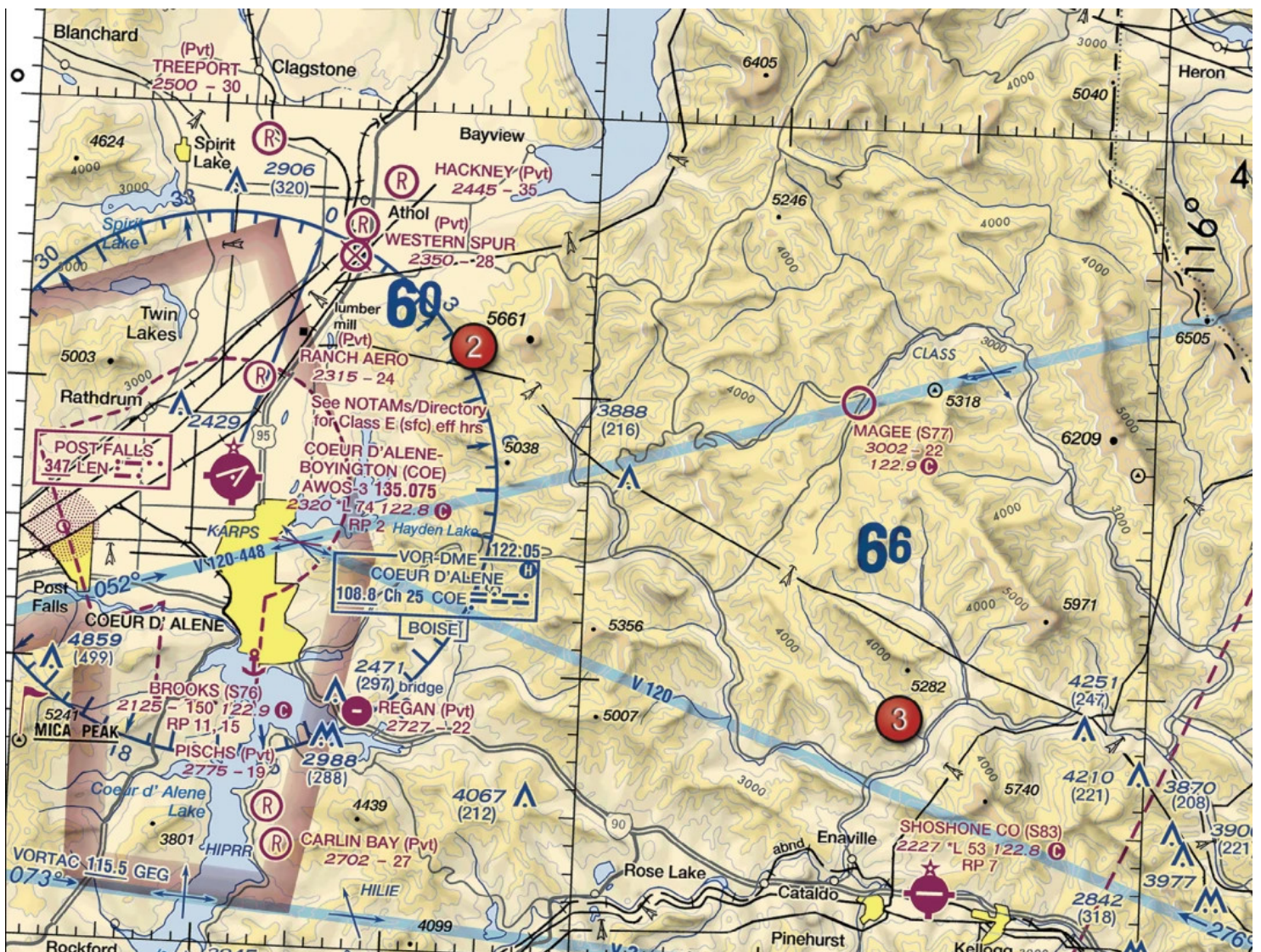
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30. At Coeur D'Alene which frequency should be used as a Common Traffic Advisory Frequency (CTAF) to monitor airport traffic?



- a) 122.05 MHz.
- b) 122.8 MHz.
- c) 135.075 MHz.

31. Crew Resource Management (CRM) is defined as the effective use of:

- a) Only the hardware and software systems on board the aircraft.
- b) ATC personnel and ground crews exclusively.
- c) All available resources—human, hardware, and information—to ensure a safe operation.

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32. Conversely, if an airport symbol on a sectional chart is blue, what does it signify?

- a) The airport has an operating control tower.
- b) The airport does NOT have an operating control tower.
- c) The airport has water landing areas only.

33. If a Military Training Route (MTR) has a 4-digit number (e.g., VR1207), it means that flights on that route are conducted at:

- a) Altitudes at or below 1,500 feet AGL.
- b) Altitudes above 1,500 feet AGL.
- c) Supersonic speeds only.

34. If your drone crashes into a person and causes a laceration that requires stitches, when must you report it to the FAA?

- a) Within 10 calendar days, because it is a serious injury.
- b) Within 30 calendar days.
- c) No report is required if the person does not press charges.

35. Is a visual observer (VO) required for all Part 107 operations?

- a) Yes, you must always have a VO.
- b) No, a VO is optional, but highly recommended.
- c) No, a VO is only required if flying over people.

36. What is required to operate a small UAS during civil twilight?

- a) A special waiver from the FAA.
- b) A visual observer.
- c) Anti-collision lights visible for at least 3 statute miles.

37. On a sectional chart, what do the grey lines labeled 'VR' or 'IR' followed by a number indicate?

- a) Victor Airways.
- b) Military Training Routes.
- c) Instrument Approach Procedures.

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38. What kind of airspace is depicted on a sectional chart by a hatched magenta area?

- a) Restricted Area.
- b) Military Operations Area (MOA).
- c) Warning Area.

39. Since drones cannot fly above 400 feet AGL (without being near a structure), how does the 2,000-foot AGL requested minimum altitude over National Wildlife Refuges affect drone pilots?

- a) Drone pilots must apply for a waiver to fly at 2,000 feet.
- b) Drone pilots should generally avoid operating over these areas to comply with the requested minimum.
- c) The rule only applies to manned aircraft; drones are exempt.

40. On a sectional chart, how is Class C airspace depicted?

- a) By solid magenta lines.
- b) By dashed magenta lines.
- c) By solid blue lines.

41. A systematic approach to preflight planning should always include:

- a) Only checking the weather and the drone's battery level.
- b) Checking weather, airspace, terrain, crew fitness, and performing a thorough inspection of the aircraft.
- c) Applying for a waiver for every flight.

42. According to 14 CFR part 107, what is the maximum groundspeed for a small UA?

- a) 100 knots.
- b) 87 knots.
- c) 87 mph.

43. Standard sea level pressure is:

- a) 28.92 inches of mercury (Hg).
- b) 30.00 inches of mercury (Hg).
- c) 29.92 inches of mercury (Hg).

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44. What is the standard direction of turns in an airport traffic pattern?

- a) Right-hand turns.
- b) Left-hand turns.
- c) It alternates depending on the wind direction.

45. You are flying a drone that weighs 54 pounds. The payload you want to add weighs 2 pounds. Can you fly this drone under Part 107?

- a) Yes, as long as the payload is securely attached.
- b) Yes, Part 107 covers drones up to 100 pounds.
- c) No, the total takeoff weight must be less than 55 pounds.

46. In a METAR report, what does the abbreviation 'BR' stand for?

- a) Mist.
- b) Broken clouds.
- c) Blowing rain.

47. What conditions are necessary for the formation of thunderstorms?

- a) Lifting force, moist air, and extensive cloud cover.
- b) High humidity, high temperature, and cumulus clouds.
- c) High humidity, lifting force, and unstable conditions.

48. You are looking at a sectional chart and see an airport symbol that is magenta colored. What does this typically mean regarding the presence of a control tower?

- a) The airport has an operating control tower.
- b) The airport does NOT have an operating control tower.
- c) The airport is strictly for military use.

49. When a control tower located on an airport within Class D airspace ceases operation for the day, what happens to the airspace?

- a) The airspace reverts to Class E or a combination of Class E and G airspace.
- b) The airspace remains Class D airspace.
- c) The airspace becomes a Restricted Area.

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50. What does the latitude line at point 4 measure?



- a) The degrees of latitude east and west of the line that passes through Greenwich, England.
- b) The degrees of latitude north and south from the equator.
- c) The degrees of latitude east and west of the Prime Meridian.

51. When computing weight and balance, the 'datum' is:

- a) An imaginary vertical plane or line from which all measurements of arm are taken.
- b) The exact center of the propeller hub.
- c) The total weight of the aircraft empty.

52. What is the best way to keep track of a drone's maintenance history, battery cycles, and component replacements?

- a) Maintain a detailed logbook for the drone and its batteries.
- b) Rely on the drone's internal app memory.
- c) Report all maintenance to the FAA via DroneZone.

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53. A pilot experiencing the effects of hyperventilation should be able to restore the proper carbon dioxide level in the body by

- a) slowing the breathing rate, breathing into a paper bag, or talking aloud.
- b) breathing spontaneously and deeply or gaining mental control of the situation.
- c) increasing the breathing rate in order to increase lung ventilation.

54. You are hired to take real estate photos. The property is located directly under the approach path of a nearby airport. What should you do?

- a) Check the airspace classification and obtain authorization if it is controlled airspace.
- b) Fly quickly to avoid incoming aircraft.
- c) Fly only on weekends when traffic is lighter.

55. Why is 'clear ice' generally considered the most dangerous type of structural icing?

- a) Because it only forms at extremely high altitudes out of drone range.
- b) Because it is heavy, hard to see, alters the shape of the airfoil, and is difficult to remove.
- c) Because it creates an electromagnetic field that disrupts the drone's compass.

56. Humidity affects density altitude because:

- a) Water vapor is lighter than dry air, making moist air less dense and thereby increasing the density altitude.
- b) Water vapor is heavier than dry air, making moist air more dense and thereby decreasing density altitude.
- c) Humidity physically coats the propellers with water, adding weight.

57. What is the primary purpose of a Temporary Flight Restriction (TFR)?

- a) To protect persons or property on the surface or in the air from a specific hazard or situation.
- b) To mark military training routes.
- c) To reserve airspace for commercial airliners.

58. How should you pronounce the number '9' over aviation radios?

- a) Nine.
- b) Nino.
- c) Niner.

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59. Which airspace is generally designated from the surface to 10,000 feet MSL surrounding the nation's busiest airports?

- a) Class C airspace.
- b) Class B airspace.
- c) Class D airspace.

60. While doing a commercial drone job, your drone gets into an accident and crashes. Which of the following outcomes are you NOT required to report to the FAA?

- a) Damage to a car that will cost around \$750 to repair.
- b) A serious injury that requires the victim to be hospitalized.
- c) A minor injury to a person that needs to be addressed with first aid.

61. You want to fly your sUAS over a National Wildlife Refuge. What is the FAA's requested minimum altitude for flying over these areas?

- a) 2,000 feet AGL.
- b) 500 feet AGL.
- c) 400 feet AGL.

62. Before every flight, who is responsible for determining that the sUAS is properly loaded and within its weight and balance limits?

- a) The manufacturer.
- b) The owner of the aircraft.
- c) The Remote Pilot in Command (PIC).

63. If you add a payload to your drone that shifts the CG beyond the aft limit, what is the most likely aerodynamic consequence?

- a) The drone will be tail-heavy and highly unstable, making it difficult or impossible to control.
- b) The drone will be nose-heavy, causing it to descend rapidly.
- c) The drone will automatically engage a return-to-home protocol.

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64. The amount of water vapor which air can hold depends primarily on the:

- a) Dew point.
- b) Air pressure.
- c) Air temperature.

65. The visual observer (VO) must:

- a) Hold a Part 107 certificate.
- b) Be able to see the aircraft with their own eyes without the use of binoculars or cameras.
- c) Stand exactly next to the Remote PIC at all times.

66. Where can you find specific information, such as active times and altitudes, for a Restricted Area shown on a sectional chart?

- a) In the Chart Supplement (formerly Airport/Facility Directory).
- b) On the FAA DroneZone website.
- c) In the margin or legend of the sectional chart.

67. If you experience a 'lost link' with your small UAS, what is the first and most critical consideration?

- a) Ensuring the aircraft's pre-programmed fail-safe maneuver does not create a hazard to other aircraft or people on the ground.
- b) Calling the nearest ATC tower.
- c) Turning off the control station completely to force a hard reset.

68. Which type of front is typically associated with a narrow band of active weather, such as heavy rain or thunderstorms, because it acts like a snowplow pushing warm air violently upward?

- a) A cold front.
- b) A warm front.
- c) An occluded front.

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69. During a flight, the drone battery catches fire and destroys the drone, but causes no other damage. Do you need to report this to the FAA?

- a) No, damage to the drone itself does not require reporting.
- b) Yes, all fires must be reported within 10 days.
- c) Yes, because the cost of the drone exceeds \$500.

70. At what altitude does wind shear occur?

- a) Below 5,000 feet AGL.
- b) Above 20,000 feet MSL.
- c) At any altitude.

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Response Scheme

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

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