FAA 107 Quizzes:

Section 1: FAA regulations: relating to small UAS rating privileges, limitations, and flight operations.

When may a UAV be operated during twilight hours?
A) When equipped with a transponder
B) When equipped with anti-collision lighting
C) When in rural areas

A waiver from any section of Part 107 must be requested from the FAA:
A) 30 days in advance
B) 90 days in advance
C) 120 days in advance

The 107 regulations cover unmanned aircraft systems weighing:
A) 55 lbs or less
B) Less than 55 lbs
C) 55 kg or less

A UAV may be operated from a moving vehicle when not transporting another person's property for hire
A) Over a sparsely populated area
B) Over an urban area
C) Over a parade or event

Sec tion 2: Airspace classification and operating requirements, obstacle clearance requirements, and flight restrictions, affecting small UAS operation

A UAV may operate WITHOUT ATC clearance, where?
A) Class C Airspace
B) Class E Airspace
C) Class G airspace

NOTAM 4/3621 prohibits all aircraft operations within
A) a 3 Statute mile radius
B) a 5 mile radius
C) a 3 Nautical Mile Radius

The maximum altitude of a UAV is listed as 400 feet… what?

A) AGL
B) MSL
C) ATC

Section 3: Official sources of weather, and effects of weather on small UAS performance

A moist, unstable air mass is characterized by:

A) Stratiform clouds and continuous precipitation
B) Cumuliform clouds and showery precipitation
C) Poor visibility and smooth air

Altostratus clouds are gray to blue-gray and usually cover the entire sky, and generally precede:

A) Heavy rain, often with hail and lightning.
B) Light to moderate rain showers.
C) Storms with continuous rain or snow.

Which weather information can NOT be found online?

A) ASOS
B) TAF
C) ESS

Weather information that can be found at AviationWeather.gov is:

A) ASOS
B) TAF
C) ESS

Which weather information found at 1800WXbrief.com?

A) ASOS
B) TAF
C) ESS

How does high density altitude affect efficiency of a UA propeller?

A) Density altitude does not affect propeller efficiency
B) Propeller efficiency is increased
C) Propeller efficiency is decreased

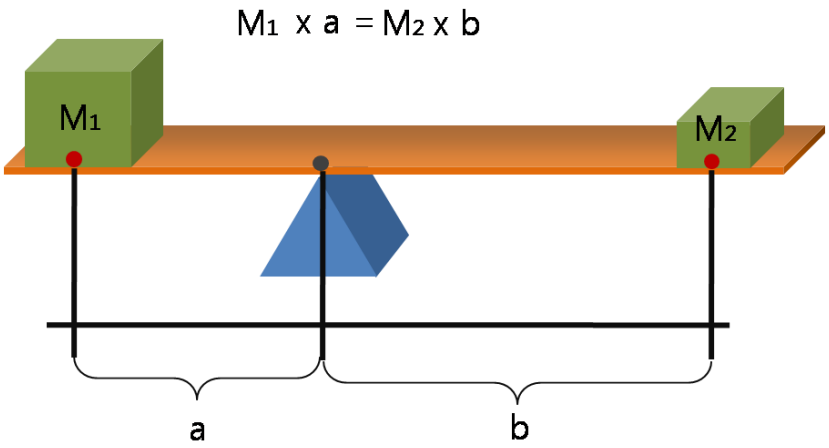
Weather is caused by:

A) uneven heating of the earth's surface.
B) differences in temperature.
C) heat exchanges.

Air is _____ dense at high altitudes or "high density altitudes"

A) more
B) less
C) uniform

Section 4: Small UAS Loading and Performance



M1 is 20 oz, M2 is 10 oz, a is 2 inches and b is 4 inches. Which is true?
A) The UAV is not in balance
B) The UAV is in balance
C) There's not enough data

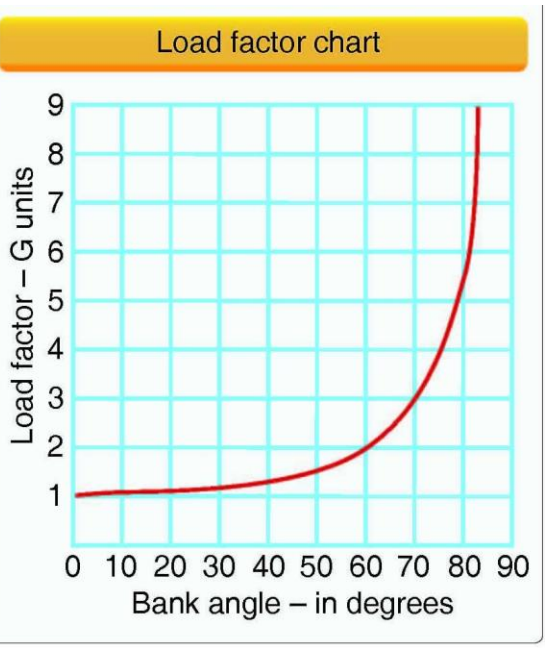
The effects on an aircraft that can result from out of balance weights include:
A) reduced control, stability and performance
B) increased fuel or battery drain
C) all of the above

To avoid exceeding the Center of Gravity limits of an aircraft, the operator should follow loading instructions provided in:
A) The Aeronautical Information Manual (AIM)
B) The Pilot's Operating Handbook or UAS Flight Manual
C) The Aircraft Weight and Balance Handbook

The load factor on the wings of an unmanned aircraft may be increased when:
A) the gross weight is reduced
B) the Center of Gravity is shifted aft of the limit
C) performing maneuvers other than straight and level flight.

If the weight of an aircraft is 30 pounds, what is the weight on the structure of the aircraft in a 30 degree banked turn?

Angle of bank ϕ	Load factor n
0°	1.0
10°	1.015
30°	1.154
45°	1.414
60°	2.000
70°	2.923
80°	5.747
85°	11.473
90°	∞



A) - 34 lbs
B) - 38 lbs
C) - 46 lbs

Section 5: Emergency Procedures and Incident Reporting

The Pilot of the small UAS is required to report any injury to a person or damage to property, other than the small UAS, resulting from the operation of the small UAS

A) Immediately or as soon as possible
B) When requested by the FAA
C) within 10 days of the operation that created the injury or damage

Part 107 Operators must report serious accidents or injuries to:

A) Flight Safety District Office (FSDO)
B) the FAA Regional Operations Center (ROC)
C) local law enforcement or 911

Which of these would require an immediate return to launch point, Return to Home, or return to base?

A) Obstruction
B) High Winds
C) Low Battery

To avoid possible collision with a manned airplane, you would estimate that your small UA climbed to an altitude greater than 600 ft AGL. To whom must you report the deviation?

A) Air Traffic Control
B) The National Transportation Safety Board
C) Upon request of the Federal Aviation Administration

When using a small UA in a commercial operation, who is responsible for briefing the participants about an emergency procedure?

A) The FAA inspector-in-charge
B) The lead visual supervisor
C) The Pilot in Command

Section 6: CRM: Crew Resource Management.

The UAV Crew is:
A) limited to the PIC and VO
B) is not limited to the PIC and the VO
C) necessary for safe UAV operation

The FAA says the Visual Observer is,
A) necessary for situational awareness
B) required
C) not required

The primary duty of the Visual Observer is to:
A) assist in situational awareness
B) assist with managing the launch site
C) assist with collision avoidance

The Visual Observer should:
A) Maintain order
B) Ovoid bright lights or tobacco products prior to participating in twilight operations.
C) Always follow instructions from the UAV Operator

Section 7: Radio Communication Procedures for UAS.

A pilot at an uncontrolled airfield would would normally “self announce” a launch operation on
A) CTAF
B) FSS
C) ASOS

The correct method of stating 4-5-0-0 feet MSL is
A) "FOUR THOUSAND FIVE HUNDRED.''
B) "FORTY-FIVE HUNDRED FEET MSL.''
C) "FOUR POINT FIVE.''

Airport frequencies are listed in:
A) The airport almanac
B) The FAR/AIM
C) The Digital Chart Supplement

The first rule of radio communications is:
A) Always give your call sign
B) Always listen first
C) Monitor other aircraft

Section 8: Determining the performance of small UAS

As defined by 14CFR107, the person responsible for determining the performance of a small unmanned aircraft is:
A) The manufacturer
B) The owner or operator
C) The Remote Pilot in Command

The 3 "H" factors relate to:
A) Air Density
B) Efficiency
C) Altitude

Why is it important to know the performance specifications of a UAS?
A) To maximize use
B) To fly higher
C) To avoid accidents

In terms of UAV performance, moist air is:
A) Heavier than dry air
B) Lighter than dry air
C) Has no effect on performance

Section 9: Physiological effects of drugs and alcohol

Some studies have shown decrements in pilot performance with blood alcohol concentrations as low as:
A) 0.04%
B) 0.25%
C) 0.025%

Alcohol can be eliminated from the body by:
A) Breathing 100% Oxygen

B) Waiting 24 hours
C) Cold showers or black coffee

Some common indications of dehydration include:
A) Apathy, impaired consciousness
B) Mild euphoria, decreased attention
C) Sleepiness and dizziness

Which is true regarding the presence of alcohol within the human body?
A) Consuming water will alleviate a hangover
B) Small amounts of alcohol increases vision acuity
C) Even small amounts of alcohol can adversely affect judgment and decision-making

Section 10: Next let's talk about Aeronautical decision-making and judgment, or ADM

Trying to get it over with, was one of the mistakes our friend Jack made:
What is the antidote when a pilot has a hazardous attitude, such as "Impulsivity"?
A) Not so fast, think first.
B) It could happen to me.
C) It could happen to me.

What is the antidote when a pilot has a hazardous attitude, such as "Resignation"?
A) What is the use.
B) I am not helpless.
C) Someone else is responsible.

What is the antidote when a pilot has a hazardous attitude, such as "Invulnerability"?
A) It will not happen to me.
B) It can not be that bad.
C) It could happen to me.

Most failures and accidents can be attributed to:
A) Bad weather.
B) Failure to plan ahead.
C) Poor judgment and bad decisions by the operator

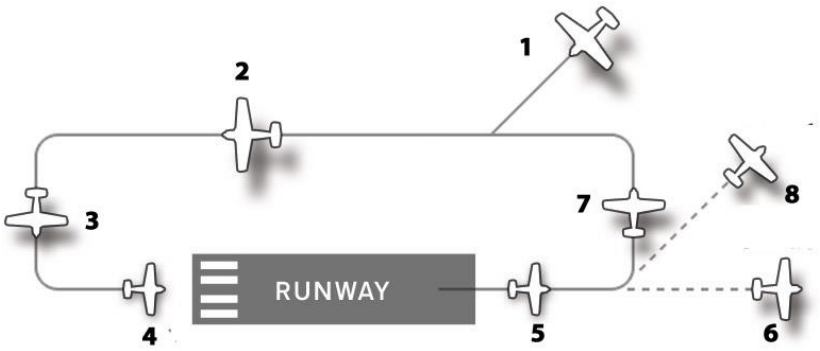
Section 11: Airport Operations and Charts

The three types of airport are Private, Military and ____:
A) Municipal
B) Public
C) Civil

The distance between degrees of latitude is:

A) 1 Statute Mile
B) 1 Nautical Mile
C) Varies

Which number indicates the BASE leg of the approach?

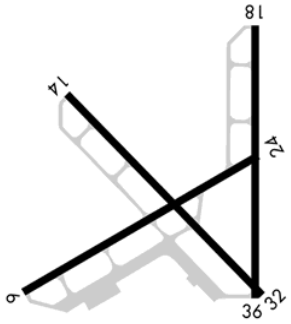


A) 1
B) 2
C) 3
D) 4

What is Final approach?

A) 6
B) 4
C) 8
D)3

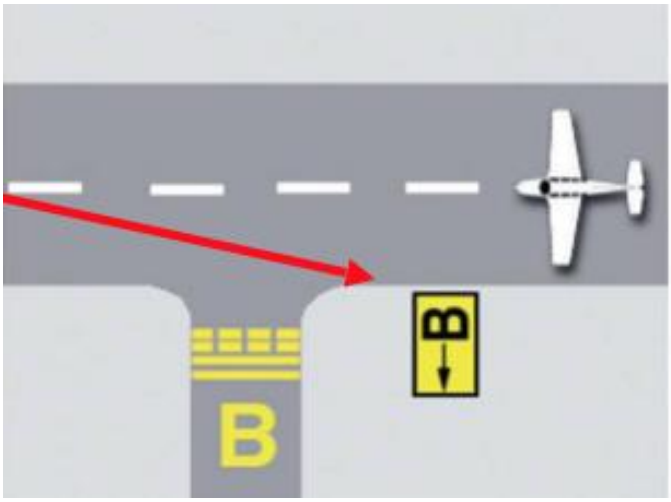
An aircraft announces “midfield downwind of runway 14”. Where is the aircraft with respect to the runway?



A) East
B) South
C) West

(Use the chart above) If the wind is from the north, which runway will be in use?

A) Runway 18
B) Runway 32
C) Runway 36
D) Runway 24



This yellow sign indicates:

A) The plane is on Taxiway B
B) Taxiway B Intersection
C) Runway Exit to the Right

Section 12: Maintenance and Preflight Inspection Procedures

Damage to a Lithium battery can result in

A) Increased flight time
B) A change in the aircraft balance
C) Fire

According to 14 CFR Part 107, the responsibility to inspect the small UAS to ensure that it is in safe operating condition rests with the

A) The Remote Pilot in Command
B) The Visual Observer
C) The owner of the UAS

The Remote Pilot of a small UAS must be sure that

A: Objects carried on the sUAS are visible
B: The site supervisor has approved the flight
C: That the sUAS is in a condition for safe operation

Operating a small UAV over its specified maximum allowable weight could result in:

A) Greater speed

B) Increased stability,

C) Reduced endurance

Under what condition should the operator of a small UA establish a scheduled maintenance protocol?

A) when the manufacturer does not provide a maintenance schedule

B) UAS does not need a required maintenance schedule

C) when the FAA requires you to, following an accident.