

Exercise 1: AIRCRAFT CATEGORIES/ PERFORMANCE CHARACTERISTICS

Purpose To provide a review of aircraft categories/performance characteristics.

Directions Indicate your selection by circling the appropriate letter or filling in the blank for each exercise item. For Question 1, match the definition or description in Column B to the correct class/category/characteristics in Column A.

Review Questions

- 1.
- | Column A | Column B |
|---|--|
| _____ Category I | A. Aircraft weighing more than 41,000 lbs. maximum certified takeoff weight up to but not including 300,000 lbs. |
| _____ Category II | B. A large multi-engine turbojet aircraft. |
| _____ Category III | C. Aircraft capable of takeoff weights of 300,000 lbs. or more whether operating at that weight or not. |
| _____ Small Weight Class | D. Small aircraft weighing 12,500 lbs. or less, single-engine, propeller-driven, and all helicopters. |
| _____ Large Weight Class | E. Aircraft weighing 41,000 lbs. or less maximum certified takeoff weight. |
| _____ Heavy Weight Class | F. Small aircraft weighing 12,500 lbs. or less, twin-engine, and propeller-driven. |
| _____ CAT I Operating Characteristics | G. Aircraft normally operating at 10,000 feet MSL and below, speed between 100-160 knots with a climb rate of 1,000 feet per minute or less. |
| _____ CAT II Operating Characteristics | H. Aircraft normally operating at below FL200, speed between 90-160 knots with a climb rate of 500-2,150 feet per minute. |
| _____ CAT III Operating Characteristics | I. Aircraft normally operating at FL240 and below, speed between 160-250 knots with a climb rate of 1,000-2,000 feet per minute. |
| _____ Helicopters | J. Aircraft normally operating at FL450 and below, speed between 300-550 knots with a climb rate of 2,000-4,000 feet per minute. |

**Review
Questions
(Cont'd)**

2. Designators may have as many as _____ characters, but no less than _____.
 - A. 8; 4
 - B. 6; 3
 - C. 4; 2
 - D. 3; 1

3. An aircraft designator must consist of letters only.
 - A. True
 - B. False

4. The first character in an aircraft designation must be a/an _____.
 - A. number
 - B. letter
 - C. letter or number
 - D. 'N'