

**National Marine Manufacturers Association**  
**Product Compliance Specialist Examination**  
**Capacity (12/07)**

1. Define the cubic capacity of a boat hull:
  - a. The volume of the hull below the level reference line.
  - b. The volume of the hull above the static float plane.
  - c. The area of the hull below the static float plane.
  - d. The volume of the hull below the static float plane.
  
2. If you compare the overall length of a boat without a motor well, to the length of the static float plane:
  - a. The static float plane is shorter than or equal to the overall length.
  - b. The overall length is shorter than the static float plane.
  - c. The calculation length is the same as the overall length.
  - d. The static float plane is longer than the overall length.
  
3. To find the displacement below a static float plane:
  - a. Convert the weight of salt water to the volume of the hull float plane.
  - b. Multiply 62.4 times the volume of the hull above the static
  - c. Multiply the volume of the hull by 1728.
  - d. Convert the volume of the hull below the static float plane to the weight of fresh water it displaces.
  
4. Transverse sections of the hull are:
  - a. Perpendicular to the level reference line.
  - b. Parallel to the boat's static float plane.
  - c. Perpendicular to the static float plane.
  - d. Parallel to the centerline of the boat below the static to the weight of float plane.
  
5. Sealing provisions for control cables, wiring and fuel lines are provided for when the openings are:
  - a. Below the static float plane and within the motor well.
  - b. Located outside of the motorwell.
  - c. Below the static float plane.
  - d. Above the static float plane.

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6. To obtain the volume of an outboard motorwell, the vertical measurement is taken from the bottom of the motorwell up to:
  - a. The top of the hull.
  - b. The static float plane.
  - c. The section of maximum beam.
  - d. The top of the transom cut out
  
7. Boat structure that is aft of the transom and below the static float plane has what effect on the displacement of the boat?
  - a. It must be subtracted from the boat weight.
  - b. It will increase displacement.
  - c. It will not change the displacement.
  - d. It will decrease displacement.
  
8. The maximum persons capacity for an outboard boat is found by:
  - a. Maximum allowable weight capacity plus the total weight from ABYC S-30.
  - b. Maximum allowable weight capacity minus the portable fuel tank weight from ABYC S-30.
  - c. Maximum allowable weight capacity minus the submerged weight from ABYC S-30.
  - d. Maximum allowable weight capacity minus the total weight from ABYC S-30.
  
9. A stability test on the upper deck of a boat results in a lower persons capacity than for the lower deck, the builder should:
  - a. Use the lowest capacity obtained for the upper deck.
  - b. Use the highest capacity rating for the boat.
  - c. Post a reduced capacity label for the upper deck.
  - d. Post an increased capacity label for the lower deck.
  
10. The cubic capacity of an outboard boat is 196 cubic feet. The previously calculated boat weight for this model is 1675 pounds. What is the maximum allowable weight capacity for this boat?
  - a. 1675 pounds
  - b. 1834 pounds
  - c. 1978 pounds
  - d. 2111 pounds

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11. A sterndrive boat has a hull volume measured below the static float plane of 299,889 cubic inches. Find the cubic capacity in cubic feet:
- a. 173.5 cubic feet
  - b. 179.6 cubic feet
  - c. 197.6 cubic feet
  - d. 2082.5 cubic feet
12. If the calculated boat weight for the boat in question 10 had been found to be 1705 pounds, and it was an inboard powered boat what is the maximum weight capacity?
- a. 2105 pounds
  - b. 1403 pounds
  - c. 1503 pounds
  - d. 1576 pounds
13. When calculating the number of persons using ABYC H-5, the first step is:
- a. The sum of 32 is subtracted from the maximum allowable weight capacity.
  - b. The sum of 32 is added to the maximum allowable weight capacity.
  - c. The sum of 32 is added to the posted pounds of persons capacity.
  - d. The sum of 32 is subtracted from the posted pounds of persons capacity.
14. If the posted persons capacity on an outboard boat is 1240 pounds, what is the maximum number of persons allowed for that boat?
- a. 7 persons
  - b. 8 persons
  - c. 9 persons
  - d. 10 persons
15. The maximum pounds of persons capacity for inboard boats:
- a. Shall not exceed 90% of the maximum allowable weight capacity.
  - b. Shall not exceed the maximum allowable weight capacity, less the total weight of the engine and battery.
  - c. Shall not exceed the maximum allowable weight capacity.
  - d. Shall not exceed the maximum allowable weight capacity plus the total combined weight of the engine, controls, portable fuel tanks and the battery.

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16. An inboard vessel covered by ABYC H-5 capacity standards has a posted maximum capacity of 1300 pounds for persons and gear. If 250 pounds is allotted for gear, how many persons would be indicated on the Capacity plate?
- a. 8 persons
  - b. 7 persons
  - c. 6 persons
  - d. 5 persons
17. A boat with an upper deck has a maximum persons weight capacity of 1600 lbs and a posted capacity of 400 lbs for the upper level. When conducting a persons capacity test, how much weight is placed on the lower level?
- a. 540
  - b. 626
  - c. 724
  - d. 816
18. In what instance could a multi-hulled boat be considered a mono-hull boat?
- a. When it is a sailboat
  - b. When it has a maximum weight capacity less than 550 lbs.
  - c. When the multi-hulls intersection with the water surface forms a single closed curve.
  - d. Multi-hull boats can never be considered as mono-hulled boats by definition
19. If the maximum weight capacity of an outboard boat is 1370 lbs, and the boat has a 5hp motor with a portable tank, what is the maximum allowable persons capacity?
- a. 983 lbs
  - b. 1280 lbs
  - c. 1255 lbs
  - d. 1370 lbs
20. The maximum weight capacity for specialized boats, not covered under the Code of Federal Regulations, must be determined by the same procedure as;
- a. Inboard boats
  - b. Outboard boats
  - c. Mono-hulled sailboats
  - d. Pontoon boats

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21. What is the section name for Area A used in calculating cubic capacity?
- a. Quarter Length Forward
  - b. Quarter Length Aft
  - c. Amidships
  - d. Eighth length forward
22. When measuring a hull for displacement calculations, all measurements are recorded in:
- a. Feet and decimals of an inch.
  - b. Inches and decimals of an inch.
  - c. Feet and inches.
  - d. Inches and fractions of an inch.
23. An inboard boat has a maximum allowable weight capacity of 1650 pounds. The maximum number of persons that could be displayed on the Capacity plate is:
- a. 13 persons
  - b. 12 persons
  - c. 11 persons
  - d. 10 persons
24. Boats with upper decks and outboard boats with persons capacity under 550 pounds must have the capacity confirmed by testing. If necessary, the persons capacity should be reduced until:
- a. The boat is level.
  - b. Freeboard exists.
  - c. 60% of the persons capacity is moved to the opposite side of the boat.
  - d. The water level is above the static float plane
25. For an inboard or sterndrive boat, which of the following is a true statement?
- a. The maximum pounds of persons capacity shall not exceed the posted pounds of persons capacity.
  - b. The maximum pounds of persons capacity shall not exceed the maximum allowable weight capacity.
  - c. The maximum pounds of persons capacity shall not exceed 90% of the posted maximum allowable weight capacity.
  - d. The maximum pounds of persons capacity shall not exceed the maximum allowable weight capacity minus the total weight from ABYC S-30.