

National Marine Manufacturers Association

Product Compliance Specialist Examination

Capacity (12/08)

1. For the purposes of this standard, the maximum weight capacity of a boat is:
 - a. The maximum load the boat may carry plus 32 divided by 141
 - b. The load displayed on the capacity label
 - c. The load displayed on the capacity label minus engine weight
 - d. The maximum load the boat may carry

2. If you compare the overall length of a boat to the calculation length:
 - a. The calculation length is shorter than the overall length.
 - b. The overall length is shorter than the calculation length.
 - c. The calculation length is the same as the overall length.
 - d. The calculation length, in most cases, is equal to the overall length.

3. To find the displacement of a hull below the static float plane:
 - a. Convert the weight of salt water to the volume of the hull below the static float plane.
 - b. Multiply 62.4 times the volume of the hull and divide by 7
 - 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. When calculating the hull volume, transverse sections of the hull are:
 - a. Perpendicular to the boat's static float plane.
 - b. Parallel to the boat's static float plane.
 - c. Taken at one fifth of the calculation length.
 - d. Parallel to the centerline of the boat below the static float plane.

5. Sealing provisions for control cables and fuel lines are provided for when the opening is:
 - a. Below the static float plane and have its greatest dimension not over 4.5"
 - b. Located outside of the motor well.
 - c. Below the static float plane and within the motor well
 - 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 transom cut out.
 - b. The static float plane.
 - c. The section of maximum beam.
 - d. The top of the hull.

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 decrease displacement.
 - c. It will not change the displacement.
 - d. It will increase displacement.

8. The maximum persons capacity for an outboard boat with a permanent fuel tank 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 100 lbs less than 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 upper level persons capacity label in pounds.
 - d. Post a reduced upper level persons capacity label determined by dividing the quantity of 32, plus the weight, by 141 and round up or down to the nearest whole number.

10. The cubic capacity of an outboard boat is 168.5 cubic feet. The previously calculated boat weight for this model is 1520 pounds. What is the maximum allowable weight capacity for this boat?
 - a. 1798 pounds
 - b. 1834 pounds
 - c. 1978 pounds
 - d. 2111 pounds

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11. If the calculated boat weight for the boat in question 10 had been found to be 1625 pounds (including fuel and propulsion system) and it was an inboard powered boat what is the maximum weight capacity?
- 1720 pounds
 - 1625 pounds
 - 1777 pounds
 - 1270 pounds
12. A sterndrive boat has a hull volume measured of 325,250 cu. in. and two hull sponsons aft of the transom of 624 cu. in. each below the static float plane. What is the cubic capacity in cubic feet?
- 173.5 cubic feet
 - 188.9 cubic feet
 - 178.6 cubic feet
 - 182.2 cubic feet
13. When calculating the number of persons using ABYC H-5, the first step is:
- The sum of 32 is subtracted from the maximum allowable weight capacity.
 - The sum of 32 is added to the posted pounds of persons capacity.
 - The sum of 32 is added to the maximum allowable weight capacity.
 - The sum of 32 is subtracted from the posted pounds of persons capacity.
14. If the posted persons capacity on an outboard boat is 1450 pounds, what is the maximum number of persons allowed for that boat?
- 10 persons
 - 8 persons
 - 9 persons
 - 11 persons
15. The maximum pounds of persons capacity for inboard boats:
- Shall not exceed the maximum allowable weight capacity
 - Shall not exceed the maximum allowable weight capacity, less the weight from S-30 column 10
 - Shall not exceed 90% of the maximum weight capacity
 - Is always equal to the maximum allowable weight capacity

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16. An inboard boat, covered by ABYC H-5 capacity standard, has a posted maximum capacity of 1650 pounds for persons and gear. If 175 pounds is allotted for gear, how many persons would be indicated on the Capacity plate?
- 10 persons
 - 9 persons
 - 11 persons
 - 8 persons
17. A boat with an upper deck has a maximum persons weight capacity of 2100 lbs and a posted capacity of 450 lbs for the upper level. When conducting a persons capacity test, how much weight is placed on the lower level?
- 270
 - 990
 - 1650
 - 1260
18. In what instance could a multi-hulled boat be considered a mono-hull boat?
- When it is a sailboat
 - When it has a maximum weight capacity less than 550 lbs.
 - When the multi-hulls intersection with the water surface forms a single closed curve.
 - Multi-hull boats can never be considered as mono-hulled boats by definition
19. If the maximum weight capacity of an outboard boat is 1850 lbs, and the boat has a single 50 hp motor with a permanent tank, what is the maximum allowable persons capacity?
- 1598 lbs
 - 1449 lbs
 - 1531 lbs
 - 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;
- Inboard boats
 - Outboard boats, two HP or less
 - Pontoon boats
 - Mono-hulled sailboats

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21. What is the section name for Area AA used in calculating cubic capacity?
- Quarter Length Forward
 - Quarter Length Aft
 - Amidships
 - Eighth length forward
22. When measuring a hull for displacement calculation, all measurements are taken from the outside of the hull and recorded in:
- Feet and decimals of an inch.
 - Inches and fractions of an inch.
 - Feet and inches.
 - Inches and decimals of an inch.
23. An inboard boat has a maximum allowable weight capacity of 1310 pounds. The maximum number of persons that could be displayed on the Capacity plate is:
- 9 persons
 - 10 persons
 - 8 persons
 - 11 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:
- The boat begins to take on water
 - 60% of the persons capacity is still above water
 - Freeboard exists
 - The water level is above the static float plane
25. For an inboard or sterndrive boat, which of the following is a true statement?
- The maximum pounds of persons capacity shall not exceed the posted pounds of persons capacity.
 - The maximum pounds of persons capacity shall not exceed the maximum allowable weight capacity.
 - The maximum pounds of persons capacity shall not exceed the maximum allowable weight capacity minus the fuel weight
 - The maximum pounds of persons capacity shall not exceed the maximum allowable weight capacity minus the total engine weight from ABYC S-30.