

National Marine Manufacturers Association
Product Compliance Specialist Examination
Capacity (2013 MY)
ABYC H-5 (2004)

1. The calculation length of a boat:
 - a. Is derived by the static float plane
 - b. Includes the rubrail and fenders.
 - c. Is longer than the max length.
 - d. Is expressed in cubic inches.

2. After determining the cubic capacity of the hull to find the weight capacity of an outboard boat over 2 hp
 - 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 in cubic feet and subtract the boat weight then divide by 7
 - c. Multiply the volume of the hull by 1728.
 - d. Multiply 62.4 times the volume of the hull in cubic feet and subtract the boat weight then multiply by .02

3. Sealing provisions for control cables and fuel lines are provided for when the opening is:
 - a. Located outside of the motor well.
 - b. Below the static float plane and have its greatest dimension not over 4.5"
 - c. Below the static float plane and within the motor well
 - d. Above the static float plane.

4. The maximum weight capacity of an outboard powered 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 including engines, controls, and batteries

5. 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 top of the hull.
 - d. The section of maximum beam.

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6. A swim platform that is integral with the hull below the static float plane has what effect on the capacity of the boat?
 - a. It must be subtracted from the boat weight.
 - b. It will increase capacity
 - c. It will not change the capacity.
 - d. It will decrease capacity.

7. The maximum persons capacity for an outboard boat with a portable fuel tank is found by:
 - a. Maximum allowable weight capacity minus the weight from ABYC S-30 column 10.
 - b. Maximum allowable weight capacity plus 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.

8. 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. Post a reduced upper level persons capacity label in pounds.
 - c. Use the highest capacity rating for the boat.
 - d. Decrease engine weight until the upper and lower deck capacities are the same.

9. The maximum weight capacity of sailboats with inboard auxiliary power
 - a. Must use the capacity procedure for outboard boats
 - b. Must use the capacity procedure for outboard boats under 2 hp
 - c. Must use the capacity procedure for sterndrive boats
 - d. H-5 is not applicable to sailboats

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10. In what instance could a multi-hulled boat be considered a mono-hull boat?
- a. When it is a sailboat
 - b. When the multi-hulls intersection with the water surface forms a single closed curve.
 - c. When it has a maximum weight capacity less than 550 lbs.
 - d. Multi-hull boats can never be considered as mono-hulled boats by definition
11. If the maximum weight capacity of an outboard boat is 1650 lbs, and the boat has a single 100 hp motor with a permanent tank, what is the maximum allowable persons capacity?
- a. 910 lbs
 - b. 1010 lbs
 - c. 1048 lbs
 - d. 1148 lbs
12. The maximum weight capacity for specialized boats, not covered under the Code of Federal Regulations, must be determined by the same procedure as;
- a. Pontoon boats
 - b. Inboard boats
 - c. Outboard boats, two HP or less
 - d. Mono-hulled sailboats
13. The cubic capacity of an outboard boat is 143 cubic feet. If the boat weight for this model is 1675 pounds. What is the maximum allowable weight capacity for this boat?
- a. 1450 pounds
 - b. 2189 pounds
 - c. 1035 pounds
 - d. Depends on the rated hp
14. If the boat in question 13 was an inboard powered boat weighing 1675 lbs including engine and drive, what is the maximum weight capacity?
- a. 1035 pounds
 - b. 1450 pounds
 - c. 2189 pounds
 - d. Depends on the rated hp

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15. A sterndrive boat has a hull volume measurement of 325,500 cu. in.. What is the capacity in cubic feet?
- a. 188 cubic feet
 - b. 192 cubic feet
 - c. 205 cubic feet
 - d. 210 cubic feet
16. When calculating the number of persons for outboard boats over 2 hp, the first step is:
- a. 32 is subtracted from the maximum allowable weight capacity.
 - b. Add 32 to the posted persons pound capacity, then divide by 141
 - c. Add 141 to the posted persons pound capacity, then divide by 32
 - d. The sum of 32 is added to the engine weight.
17. If the posted persons capacity on an outboard boat is 900 pounds, what is the maximum number of persons allowed?
- a. 6 persons
 - b. 7 persons
 - c. 8 persons
 - d. Cannot be determined without the engine hp and weight from S-30
18. The maximum pounds of persons capacity for single outboard boat with a permanent fuel tank:
- a. Shall not exceed the maximum allowable weight capacity
 - b. Is the max weight capacity minus the weight from S-30 column 10 plus the weight from column 9
 - c. Shall not exceed 90% of the maximum weight capacity
 - d. Is always equal to the maximum allowable weight capacity

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19. An inboard boat has a posted maximum weight capacity of 1500 pounds. If 325 pounds is allotted for gear, how many persons would be indicated on the Capacity plate?
- a. 8 persons
 - b. 9 persons
 - c. 10 persons
 - d. 11 persons
20. What is the section name for area B used in calculating cubic capacity
- a. Quarter Length Forward
 - b. Quarter Length Aft
 - c. Amidships
 - d. Eighth length forward
21. When calculating the hull volume, transverse sections of the hull are:
- a. Parallel to the boat's static float plane.
 - b. Perpendicular 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.
22. When measuring a hull for displacement calculation, all measurements are taken from the outside of the hull and recorded in:
- a. Inches and decimals of an inch.
 - b. Feet and decimals of an inch.
 - c. Inches and fractions of an inch.
 - d. Feet and inches.
23. An inboard boat has a maximum allowable weight capacity of 1275 pounds. The maximum number of persons that could be displayed on the Capacity plate is:
- a. 8 persons
 - b. 9 persons
 - c. 10 persons
 - d. Cannot be determined without engine weight.

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24. Boats with persons capacity under 550 pounds
- a. Need not have any freeboard
 - b. 60% of the persons capacity is still above water
 - c. The boat begins to take on water
 - d. Must have the capacity confirmed by testing.
25. Compliance specialist A states that the USCG requirement for outboard boat weight capacity can be more than the requirements of ABYC H-5. Compliance Specialist B states that in some cases, ABYC maximum weight capacity is less than the USCG requirement. Who is correct?
- a. Specialist A
 - b. Specialist B
 - c. Both are correct
 - d. Neither are correct.