

## CHECK YOUR PROGRESS SEAWORTHINESS

**NAME:**  
(answers)

### Question 1.

In relation to vessel construction materials, match each material to the correct response below.

- |                                    |                                |
|------------------------------------|--------------------------------|
| 1. Copper Nickel alloy             | a. Does not corrode.           |
| 2. Glass Reinforced Plastic (GRP). | b. Low weight & high strength. |
| 3. Steel.                          | c. Has good fire resistance    |
| 4. Timber                          | d. Is brittle.                 |

### Question 2.

Match each definition to the correct item below.

- |                  |                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------|
| 1. Camber.       | a. A narrow empty space between two bulkheads to prevent leakage between adjacent compartments. |
| 2. Chain locker. | b. A sharp change in the transverse shape of a vessel's hull plating.                           |
| 3. Chine.        | c. A compartment in the forward lower portion of a ship, in which the anchor chain is stored.   |
| 4. Cofferdam.    | d. The transverse curvature of a deck.                                                          |

### Question 4.

A stiff ship is caused by:

- the centre of gravity being too low.
- the centre of gravity being too high.
- the centre of buoyancy being too low.
- the centre of buoyancy being too high.

**Question 5.**

Explain briefly hogging and sagging.

Hogging is:

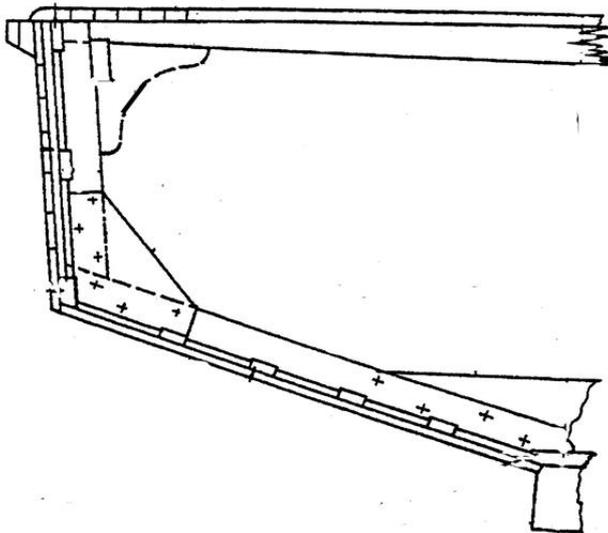
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Sagging is:

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**Question 6.**

Label the Deck Planking and a stringer



**Question 7.**

In relation to vessel construction materials, match each material to the correct response below.

- |                                    |                               |
|------------------------------------|-------------------------------|
| 1. Ferro Cement.                   | a. Is strong.                 |
| 2. Aluminium.                      | b. Is cheap.                  |
| 3. Glass Reinforced Plastic (GRP). | c. Suffers minimal corrosion. |
| 4. Steel.                          | d. Suffers UV damage          |

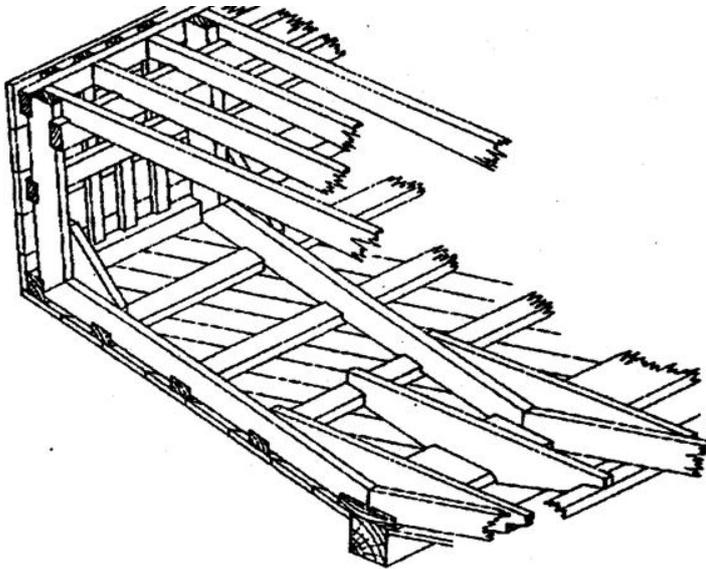
**Question 8.**

Match each definition to the correct item below.

- |                   |                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------|
| 1. Sheer.         | a. The rise of the bottom plating above the base line measured at the line of moulded beam. |
| 2. Rake.          | b. The inward curvature of the hull above the summer waterline.                             |
| 3. Rise of Floor. | c. The fore-and-aft curvature of a deck.                                                    |
| 4. Tumblehome.    | d. The amount by which a mast, funnel or stern slopes from the vertical line.               |

**Question 9.**

In the diagram below, label the transverse structural members.



**Question 10.**

Match each definition to the correct item below.

- |              |                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------|
| 1. Gunwale.  | a. Fore and aft structural members tying frames together.                                            |
| 2. Rake.     | b. An above deck extension at the side of vessels to prevent loss of persons or equipment overboard. |
| 3. Bulwark.  | c. A protective board fitted to the sheer plank.                                                     |
| 4. Stringer. | d. The amount by which a structural member slopes from the vertical.                                 |

**Question 11.**

Match each definition to the correct item below.

- |                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| 1. Athwartships.       | a. A weight or weights used to increase the draft or lower the ship's centre of gravity. |
| 2. Ballast.            | b. A watertight bulkhead within 7½% of the length of a vessel from forward.              |
| 3. Collision Bulkhead. | c. At right angles to the fore and aft line.                                             |
| 4. Deck Beam.          | d. A beam running athwartships supporting the deck.                                      |

**Question 12.**

Match each definition to the correct item below.

- |                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| 1. Sponson.                  | a. Fender fitted to hull to prevent chafing and damage.        |
| 2. Scupper.                  | b. Raised edge around an opening to help prevent water entry.  |
| 3. Coaming.                  | c. Drain from weather decks to carry off water.                |
| 4. Intercostal longitudinal. | d. A structural member fitted in short lengths between frames. |

**Question 13.**

A tender ship is caused by:

- a. the centre of gravity being too high.
- b. the centre of buoyancy being too high.
- c. the centre of buoyancy being too low.
- d. the centre of gravity being too low.

**Question 14.**

Draw the profile plan of a timber vessel's longitudinal structures below.

**Question 15.**

Describe your precautions in order to slip for an annual out of water survey.

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**Question 16.**

In relation to vessel construction materials, match each material to the correct response below.

- |                  |                                   |
|------------------|-----------------------------------|
| 1. Rubber.       | a. Rots.                          |
| 2. Aluminium.    | b. Needs care in antifoul choice. |
| 3. Timber.       | c. Is heavy.                      |
| 4. Ferro Cement. | d. Is easily damaged.             |

**Question 16.**

Match each definition to the correct item below.

- |                |                                                                                             |
|----------------|---------------------------------------------------------------------------------------------|
| 1. Transverse. | a. A watertight compartment.                                                                |
| 2. Deadwood.   | b. A longitudinal beam supporting the deck beams.                                           |
| 3. Bulkhead.   | c. Forward or aft timbers drift bolted together as packing instead of a grown / sawn chock. |
| 4. Beam shelf. | d. At right angles to the fore and aft line.                                                |

**Question 17.**

Name the parts below

