A box shaped vessel has length 120 m, breadth 18 m, depth 12 m is floating at draft 8 m in fresh water with KG 7.278 m. A weight of 432 tonnes is loaded on deck at Kg 12 m

The displacement of the ship before loading is

- a) 12340 tonnes
- b) 17280 tonnes
- c) 34560 tonnes
- d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:

KG of the vessel after loading the weight is

- a) 7.39 m
- b) 2.34 m
- c) 4.34 m
- d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:

a) 7.39 m
4) KM of the vessel after loading is  
   a) 6.27 m  
   b) 4.32 m  
   c) 7.39 m  
   d) none of the above  

   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   c) 7.39 m

5) The freeboard of the vessel after loading is  
   a) 3.8m  
   b) 4.8m  
   c) 1.9m  
   d) none of the above  

   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   a) 3.8m

6) The vessel is therefore in  
   a) Stable equilibrium  
   b) unstable equilibrium  
   c) neutral equilibrium  
   d) collapse  

   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   c) neutral equilibrium

7) A weight placed on a vessel will NOT produce trim if placed at the  
   a) LCG  
   b) LCB  
   c) LCF  
   d) midship  

   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   c) LCF

8) Moment changing trim is change in trim * X where X is
Questions 9-11 are from the following problem:  

A vessel displacing 30000 tonnes is floating at drafts F 8.3 m, A 9.6 m. MCTC, 300 tonne m/cm. Centre of Flotation, 109 m forward of after perpendicular (AP), length, 210m. 1000 tonnes of ballast are moved from a tank centre of gravity 175 m forward of AP to a tank 205 m forward of AP.

Change of trim is

- a) 200 cm
- b) 100 cm
- c) 150 cm
- d) none of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
 b) MCTC

9) Questions 9-11 are from the following problem:  

1 point

Change of trim aft is

- a) -50 cm
- b) -51.9 cm
- c) 48.1 cm
- d) none of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
 b) -51.9 cm

10) Change of trim aft is

1 point

The final draft forward is

- a) 12.1 m
- b) 8.78 m
- c) 3.24 m
- d) none of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
 b) 8.78 m

11) The final draft forward is

1 point

Questions 12-15 are from the following problem:

A vessel is about to enter a river port over a bar where the maximum depth at highwater is 9.2 m. She must have a minimum clearance of 0.5 m and is at present at draft. Forward 8.40 m, Aft 9.00 m. Water
must be discharged from an afterpeak tank LCG 7 m forward of AP. TPC=25 tonne/cm; MCTC=125 tonne m/cm; LCF, midships; length=220 m.

The amount of ballast to be discharged is

- a) 85 tonnes
- b) 66.4 tonnes
- c) 23.3 tonnes
- d) 152 tonnes

No, the answer is incorrect.

Score: 0

Accepted Answers:
- b) 66.4 tonnes

13 Change of trim is

- a) 24.7 m
- b) 32.4 m
- c) 54.7 m
- d) none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
- c) 54.7 m

14 Parallel rise of the ship is

- a) 3.4 cm
- b) 5.4 cm
- c) 2.7 m
- d) 100 cm

No, the answer is incorrect.

Score: 0

Accepted Answers:
- c) 2.7 m

15 Final draft aft is

- a) 8.7 m
- b) 10.2 m
- c) 1.1 m
- d) 3.2 m

No, the answer is incorrect.

Score: 0

Accepted Answers:
- a) 8.7 m