

**Entrance examination for degree programme in  
maritime management**

NAME: \_\_\_\_\_  
(Use capital letters, please)

Signature: \_\_\_\_\_

Social security number: \_\_\_\_\_

**The marker fills in:**

**The text comprehension test:**

Mathematics, logical deduction, physics/chemistry

Problem	1	2	3	4	5	6	7	8	9	10	Total
Score											

**TOTAL**

**READING COMPREHENSION TEST (Part 1)**

Mark the following statements either true or false according to the following

TRUE, if the statement is in accordance with the text

FALSE, if the statement is not in accordance with the text.

Grading: 10 correct answers 5 points, 9 correct answers 4 points, 8 correct answers 3 points, 7 correct answers 2 points, 6 correct answers 1 point.

	<b>Statement</b>	<b>True</b>	<b>False</b>
1.	The <i>Oasis of the Seas</i> is the result of a long evolution and a co-operation between Finnish naval architects and shipbuilders and one of the leading cruise ship owners in the world.		
2.	"There were two more vessels in the contract, though it was easy to make profit already with the first vessel", said naval architect <i>Kaj Levander</i> at the time when the <i>Song of Norway</i> was delivered in the early 70s.		
3.	When the <i>Song of America</i> was built in 1982, <i>Wärtsilä Shipyard</i> had still no experience of a diesel-electric power plant. That's why the vessel was equipped with a traditional machinery.		
4.	With a gross tonnage of 31,000 and a contract price of FIM 400 million the <i>Song of America</i> was the most expensive single order for a ship ever received by a Finnish shipyard.		
5.	The larger the vessel is, the less advantages are offered by a catamaran design.		
6.	"We realized we should not ask the passengers about their wishes, but instead the travel agents, handling customer service."		
7.	After the 1980s the cruise market simply lost its interest and the development of new cruise vessels designs was decreasing rapidly.		
8.	The maximum allowed ship width in the <i>Panama Canal</i> is 32 meters but an expansion of the Canal is due for completion in 2014.		
9.	The breadth of a <i>Post-Panamax</i> cruise vessel is limited to 32 meters, to make an entry into the <i>Panama Canal</i> possible.		
10.	The aim of the design concept with two parallel superstructures and an indoor promenade between them, was to obtain as many window cabins as possible despite the large breadth of the vessels.		

**Answerpart, part 2. (Mathematics + Logical conclusions + physics/chemistry)**  
**Solve every problem on the reserved room**

Problem 1

Answers

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

Problem 2

Answers

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

Problem 3

Answer

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Problem 4

Answers

a)

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b)

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Problem 5

Answer

\_\_\_\_\_

Problem 6

Answer

a =

\_\_\_\_\_

b =

\_\_\_\_\_

c =

\_\_\_\_\_

d =

\_\_\_\_\_

Problem 7

Answer

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Problem 8

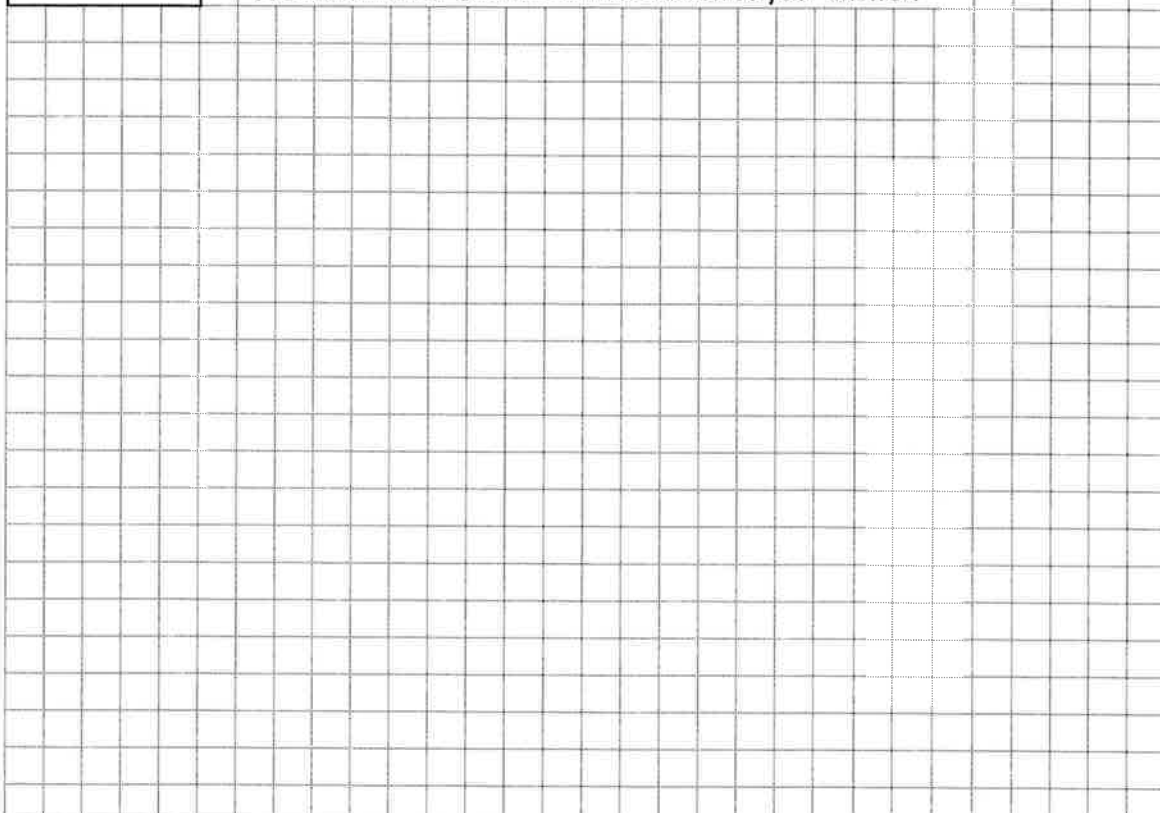
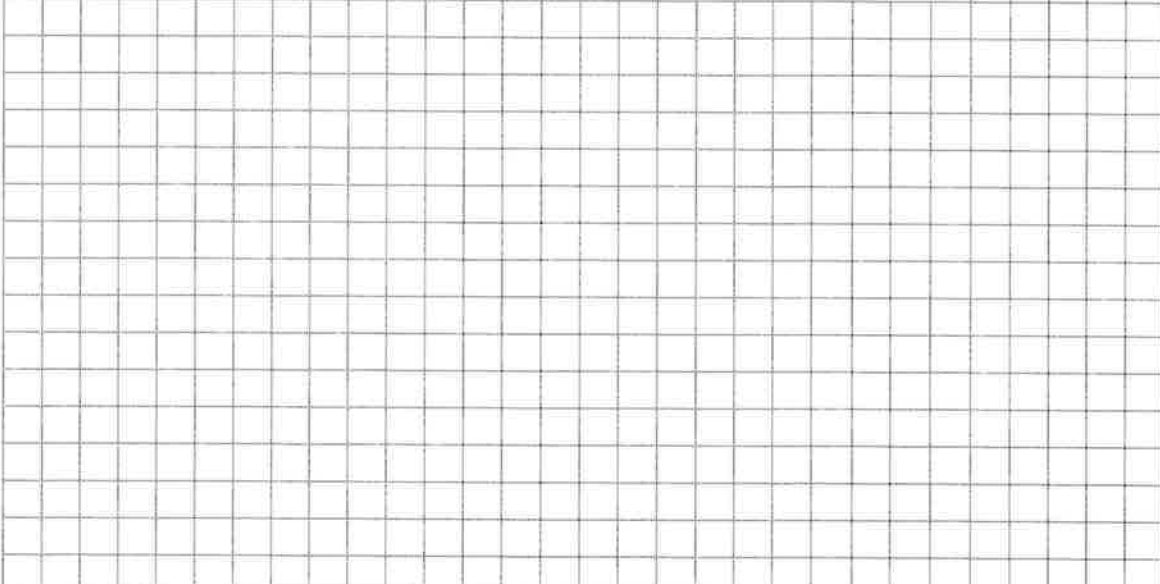
Solve only one of the problems 8A and 8B. If you solve both the inferior solution will be chosen as your answer.

Answer to the problem 8A

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Answer to the problem 8B

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<b>Problem 9</b>	Solve only one of the problems 9A and 9B. If you solve both the inferior solution will be chosen as your answer.
	
Answer to the problem 9A	Answer to the problem 9B
<b>Problem 10</b>	Solve only one of the problems 10A and 10B. If you solve both the inferior solution will be chosen as your answer.
	
Answer to the problem 10A	Answer to the problem 10B