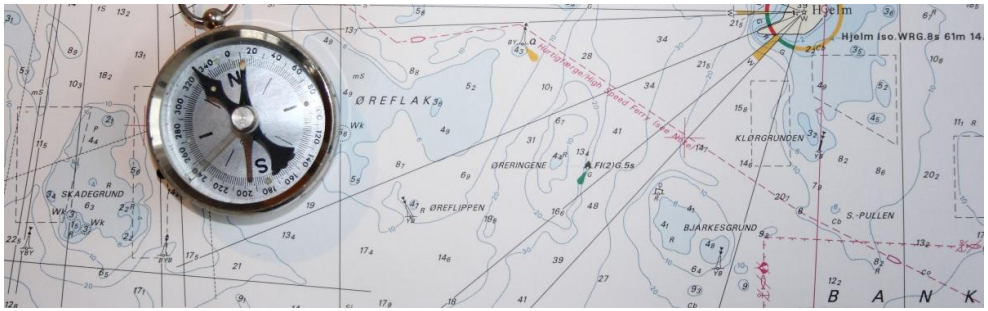
DISASTER AT SEA



Activité conçue et mise en œuvre par **Olivier THIBAUT**, professeur de mathématiques, certifié en enseignement en langue étrangère dans une discipline non linguistique

SECTION LCE - COLLEGE DE L'EUROPE

BOURG-DE-PEAGE – DROME 26

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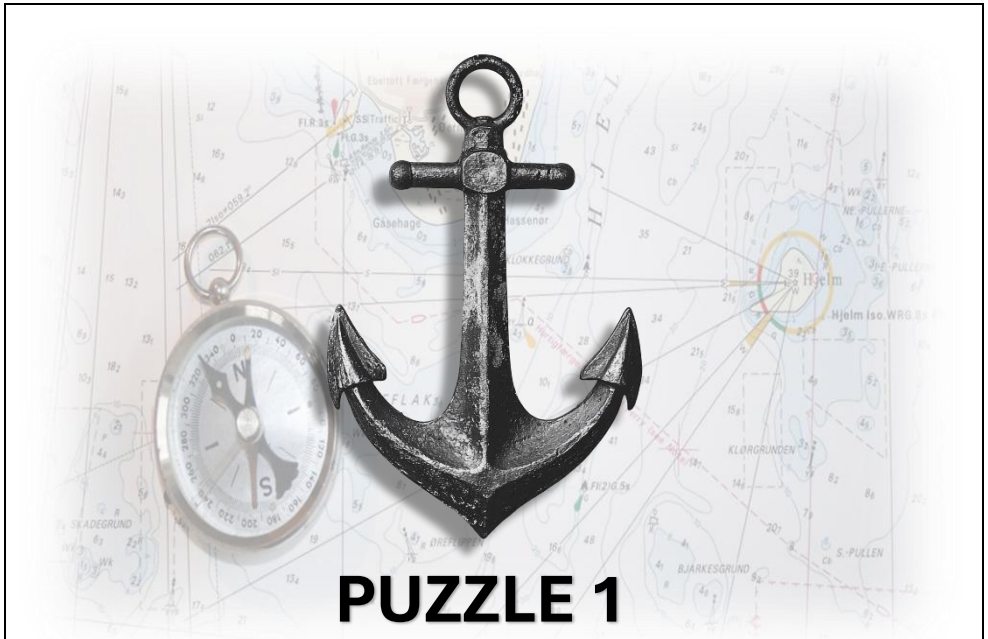
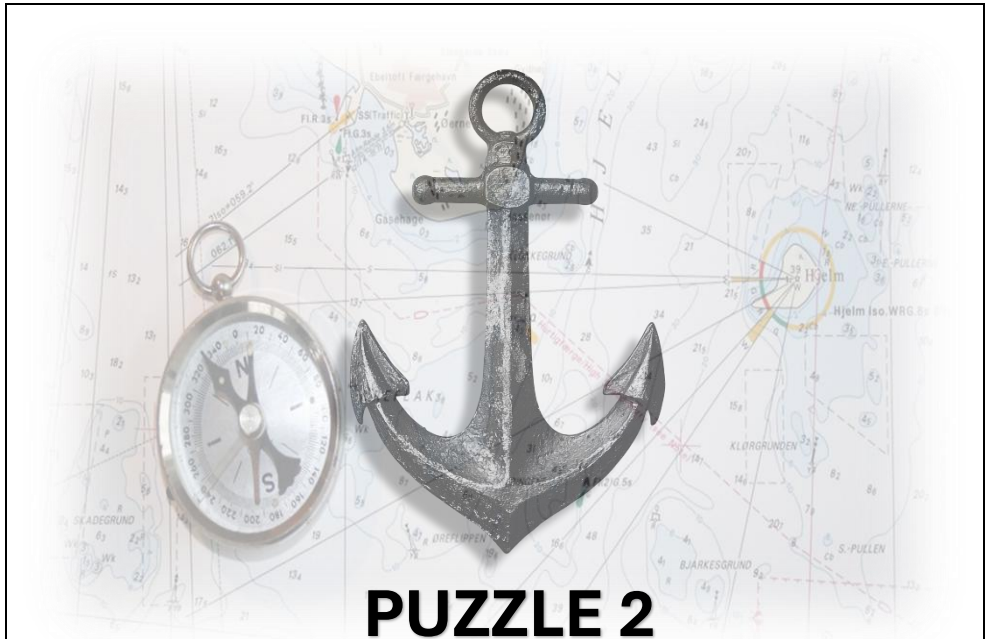


PUZZLE 1



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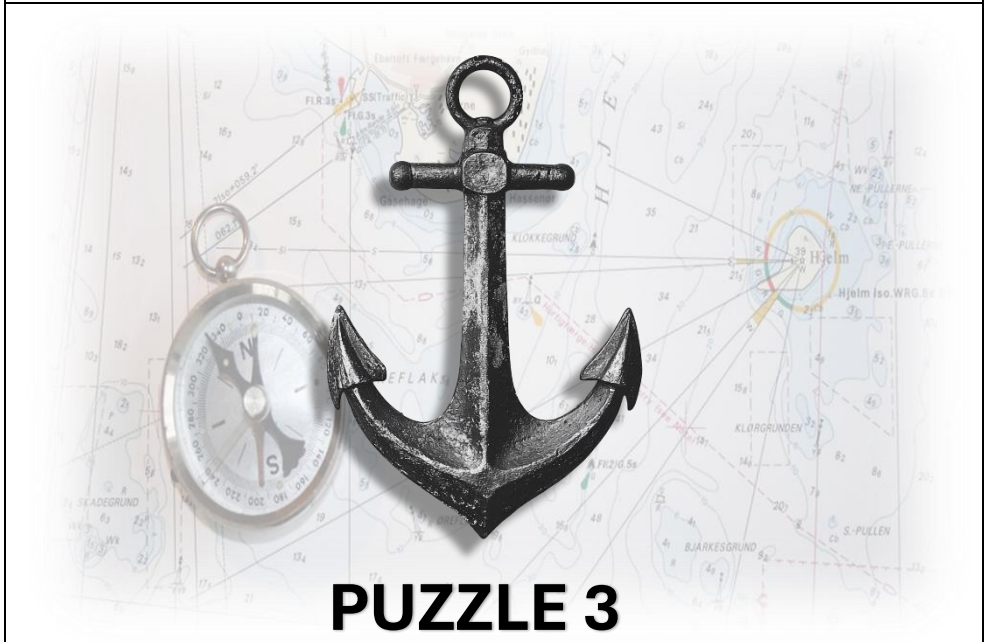
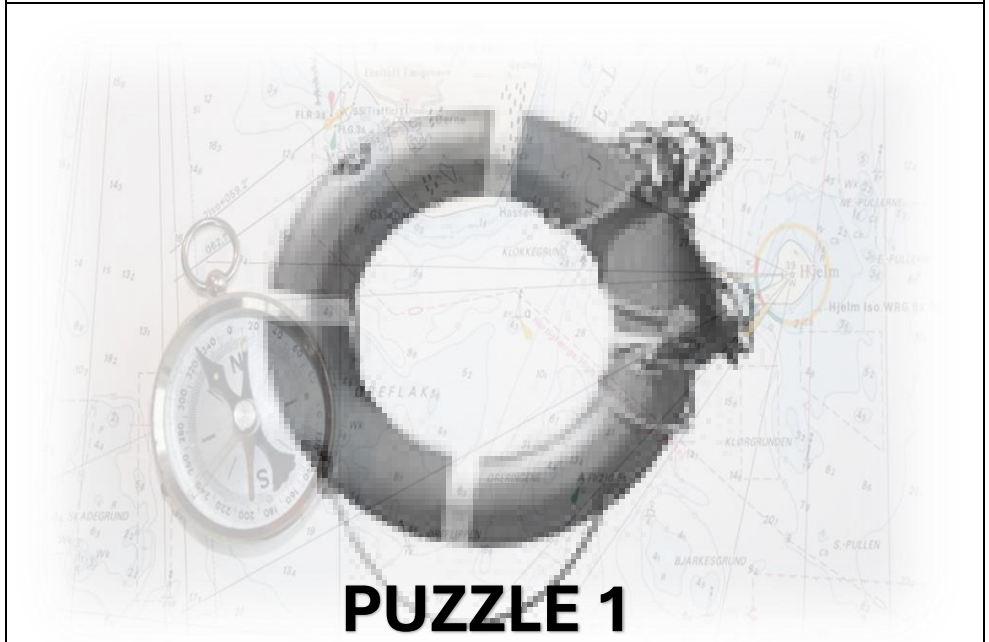


PUZZLE 3



PUZZLE 1

PUZZLE 2

Facts: A little cat is stuck on the highest part of the ship at point C. You are at point A.

Question: How long is the cable you must use to reach the cat?

PUZZLE 1

Facts: The water enters the ship at a flow rate of 28.59 m^3/min. The volume of the ship is 110,000 m^3.

Question: How long will it take for the ship to sink?

+ Information: A boat sinks when its volume is more than 50% filled with water.

Give the answer in hours (rounded to the nearest hour).

PUZZLE 1

Facts: The water enters the ship at a flow rate of 24.52 m^3/min. The volume of the ship is 110,000 m^3.

Question: How long will it take for the ship to sink?

+ Information: A boat sinks when its volume is more than 50% filled with water.

Give the answer in hours (rounded to the nearest hour).

PUZZLE 3

Facts: There are 1,010 passengers and crew on the ship. There are 19 lifeboats.

Question: Are there enough lifeboats to save all the passengers and crew, knowing that a lifeboat can hold 65 people and that **4 lifeboats** were damaged?

If not, what percentage of passengers and crew will not be saved?

PUZZLE 2

PUZZLE 3

PUZZLE 1

PUZZLE 2

PUZZLE 3

Facts: There are 1,010 passengers and crew on the ship. There are 19 lifeboats.

Question: Are there enough lifeboats to save all the passengers and crew, knowing that a lifeboat can hold 65 people and that **5 lifeboats** were damaged?

If not, what percentage of passengers and crew will not be saved?

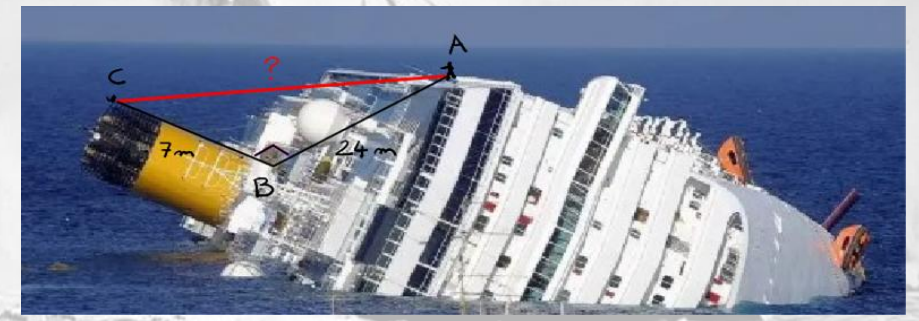
PUZZLE 2

Facts: A little cat is stuck on the highest part of the ship at point C. You are at point A.

Question: How long is the cable you must use to reach the cat?

PUZZLE 2

Facts: A little cat is stuck on the highest part of the ship at point C. You are at point A.



Question: How long is the cable you must use to reach the cat?

PUZZLE 1

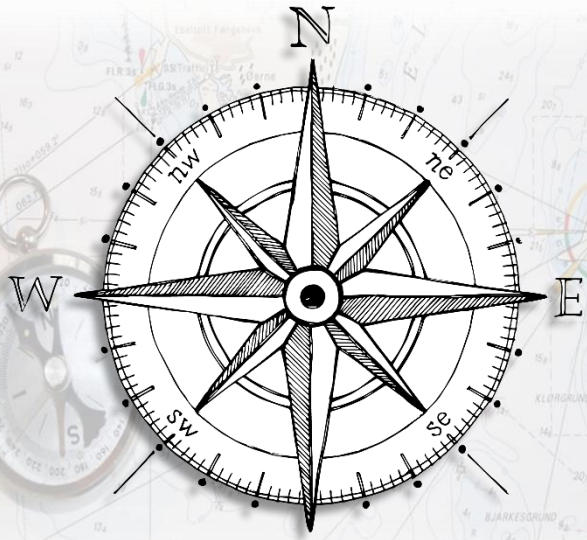
Facts: The water enters the ship at a flow rate of 26.67 m^3/min. The volume of the ship is 110,000 m^3.

Question: How long will it take for the ship to sink?

+ Information: A boat sinks when its volume is more than 50% filled with water.

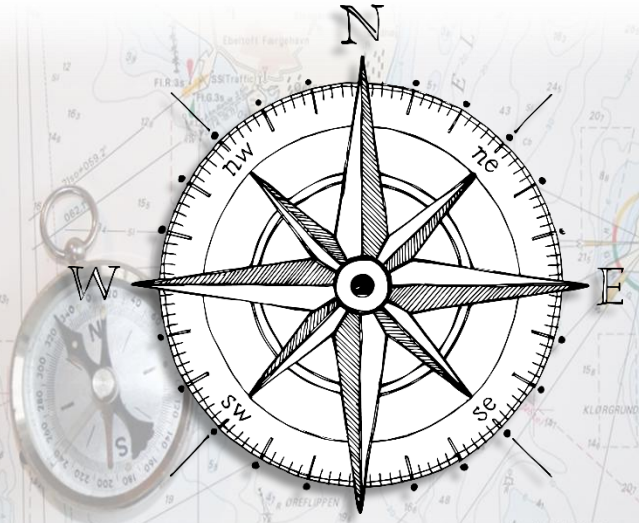
Give the answer in hours (rounded to the nearest hour).

PUZZLE 3



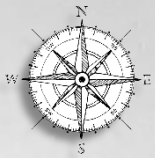
PUZZLE 1

PUZZLE 2



PUZZLE 3

PUZZLE 1



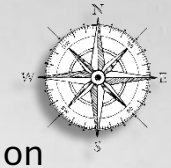
Facts: The water enters the ship at a flow rate of 22.05 m^3/min. The volume of the ship is 110,000 m^3.

Question: How long will it take for the ship to sink?

+ Information: A boat sinks when its volume is more than 50% filled with water.

Give the answer in hours (rounded to the nearest hour).

PUZZLE 3

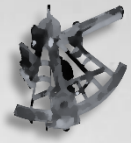


Facts: There are 1,010 passengers and crew on the ship. There are 19 lifeboats.

Question: Are there enough lifeboats to save all the passengers and crew, knowing that a lifeboat can hold 65 people and that **7 lifeboats** were damaged?

If not, what percentage of passengers and crew will not be saved?

PUZZLE 3

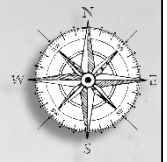


Facts: There are 1,010 passengers and crew on the ship. There are 19 lifeboats.

Question: Are there enough lifeboats to save all the passengers and crew, knowing that a lifeboat can hold 65 people and that **6 lifeboats** were damaged?

If not, what percentage of passengers and crew will not be saved?

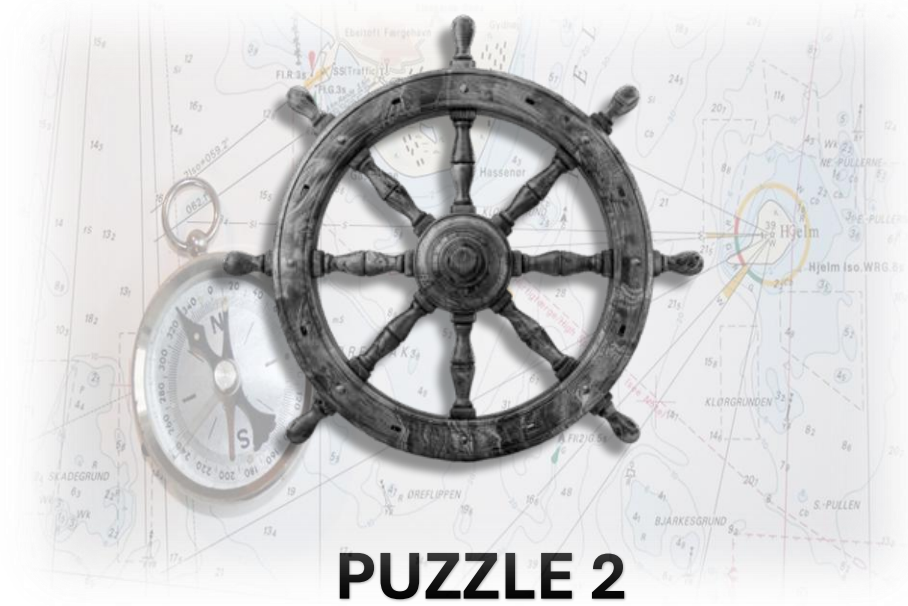
PUZZLE 2



Facts: A little cat is stuck on the highest part of the ship at point C. You are at point A.

Question: How long is the cable you must use to reach the cat?

PUZZLE 1



PUZZLE 2

PUZZLE 3

BLANK

PUZZLE 2

Facts: A little cat is stuck on the highest part of the ship at point C. You are at point A.

Question: How long is the cable you must use to reach the cat?

BLANK

PUZZLE 1

Facts: The water enters the ship at a flow rate of 20.46 m^3/min. The volume of the ship is 110,000 m^3.

Question: How long will it take for the ship to sink?

+ Information: A boat sinks when its volume is more than 50% filled with water.

Give the answer in hours (rounded to the nearest hour).

PUZZLE 3

Facts: There are 1,010 passengers and crew on the ship. There are 19 lifeboats.

Question: Are there enough lifeboats to save all the passengers and crew, knowing that a lifeboat can hold 65 people and that **8 lifeboats** were damaged?

If not, what percentage of passengers and crew will not be saved?