Physics I   2017-10-31

Agenda:
- Exam 3.
- Reading
- Exam 4.
- Questions.
- ice cube.

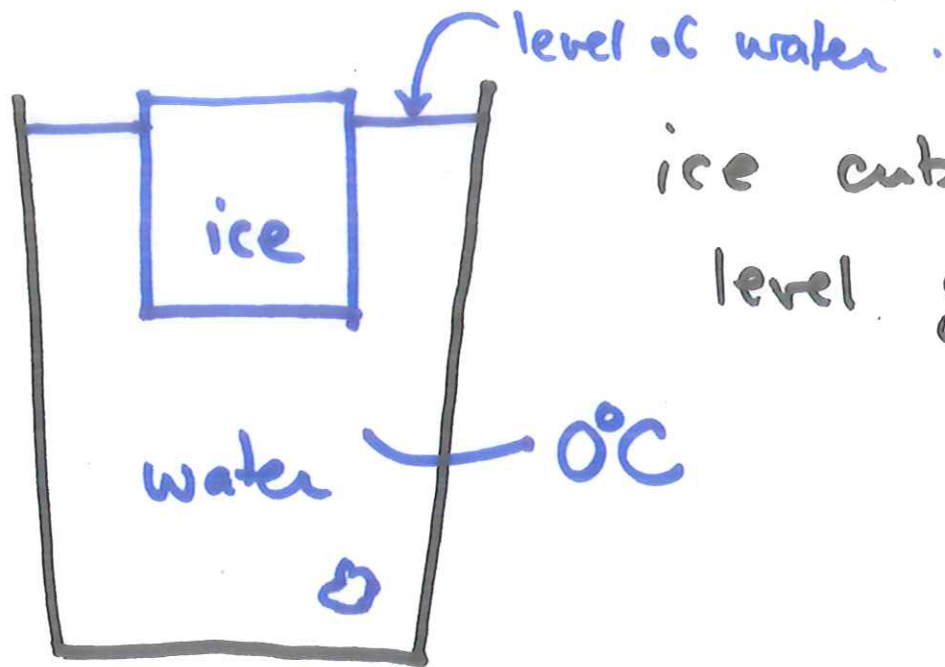units − "$\dfrac{mR}{M+m}$ kg"

boxes.
apology.

buoyancy
pressure
atmosphere.

$\boxed{100\ N}$

$\dfrac{mg}{?}$

level of water.

ice cube melts.

level goes Ⓐ up

Ⓑ down

Ⓒ nowhere.

ice

water — 0°C

boat

water

displaced
volume
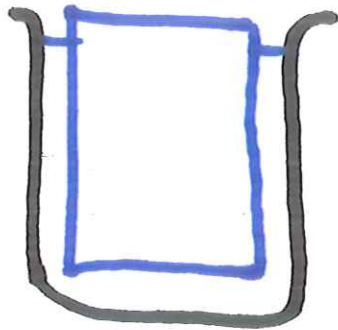
$$M_{boat} = M_{disp} = \rho_{H2O} \cdot V_{disp}$$

1 atm: 15 psi

10^5 Pa = 100 kPa = $10^5 \frac{N}{m^2}$

760 mm Hg

10 m or 33 ft of water.

water

A

B. water

B

m_Bg

mg