

## Question and answers of Physical orienteering

- 1)  $F = \frac{p}{S}$  – wrong
- 2)  $1\text{J} = \frac{1\text{F} \cdot 1\text{V}^2}{2}$  – wrong
- 3)  $T^2 g = 4\pi l$  – wrong
- 4)  $1\text{J} \cdot \text{Hz} = 1\text{A} \cdot \text{V}$  – correct
- 5)  $\rho = R \frac{S}{l}$  – correct\*
- 6)  $1\text{H} = 1 \frac{\text{Wb}}{\text{A}}$  – correct
- 7)  $\frac{T_1^3}{T_2^3} = \frac{a_1^2}{a_2^2}$  – wrong
- 8)  $1\text{T} = 1 \frac{\text{kg} \cdot \text{m}}{\text{C}}$  – wrong
- 9)  $\frac{p_1}{p_2} = \frac{T_1 V_2}{T_2 V_1}$  – correct
- 10)  $1\mu\text{W} = 1 \frac{\text{g} \cdot \text{l}}{\text{s}^3}$  — wrong

**Remark.** During the competition, due to the font used, it was not possible in the question 5 to distinguish between  $l$  (length) and  $I$  (current). Depending on that, the whole expression is correct in the first case and wrong in the second. The answers for the question 5 were not graded.