Q1 - Answer = c Q2 - Problem A - Last name A-K

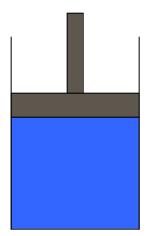
A container with 0.5 kg of water is fitted with a piston. If the water is turned to steam so that the volume changes from $0.5 \times 10^{-3} \text{ m}^3$ to $0.9 \times 10^{-3} \text{ m}^3$, how much work is done by the piston against the atmosphere?(Atm. Press. = $1.01 \times 10^5 \text{ Pa.}$)

B.
$$60.6 \text{ J}$$
 $V=(0.9-0.5) \times 10^{-3}$

C.
$$4.04 J$$
 = 0.4×10^{-3}

D. **40.4 J**
$$W=1.01x10^5x0.4x10^{-3}$$

E.
$$50.5 \text{ J} = 40.4 \text{ J}$$



Q1 - Answer = c Q2 - Problem B - Last Na me L-Z

A container with 0.3 kg of water is fitted with a piston. If the water is turned to steam so that the volume changes from 0.5 $x10^{-3}$ m³ to 1.4 $x10^{-3}$ m³, how much work is done by the piston against the atmosphere?(Atm. Press. = 1.01 x 10⁵ Pa.)

A.
$$9.09 \text{ J}$$
 W=P V;
B. 30.3 J V= $(1.4-0.5)x10^{-3}$
C. 90.9 J = $0.9x10^{-3}$
D. 50.5 J W= $1.01x10^{5}x0.9x10^{-3}$
E. 140 J = 90.9 J

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