Rank the blocks in order of charge density. (++) AE&F, B&D, C (+)

 V_0 , Q_0 , ho_0

Rank the blocks in order of total charge. (++) F, ABDE, C (+)

A
$$\rho=2Q_0/V_0$$

$$V_0, 2Q_0$$

$$ho = Q_0/V_0$$
 $2V_0$, $2Q_0$

$$\rho = Q_0/V_0 \qquad \rho = Q_0/2V_0
2V_0, 2Q_0 \qquad 2V_0, Q_0$$

D
$$Q = 2V_0 \rho_0$$

 $2V_0, \rho_0$

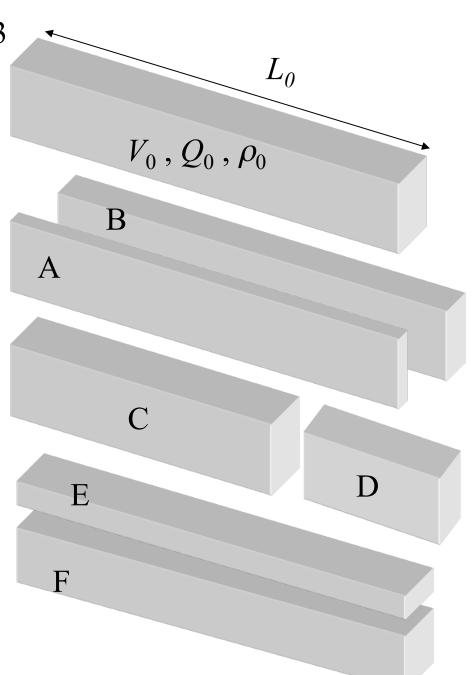
E
$$Q = 2V_0 \rho_0$$

 $V_0, 2\rho_0$

F
$$Q = 4V_0 \rho_0$$
$$2V_0, 2\rho_0$$

The original block is split into 1/3 and 2/3 in several different ways. What are Q, λ , and ρ ?

	Q	λ	ρ		
A					
В	Aı	Answers on			
С	Ne	Next Slide —			
D	110				
Е					
F					



The original block is split into 1/3 and 2/3 in several different ways. What are Q, λ , and ρ ?

	Q	λ	ho
A	$Q_0/3$	$(^{1}/_{3})Q_{0}/L_{0}$	$ ho_0$
В	2Q ₀ /3	$(^{2}/_{3})Q_{0}/L_{0}$	$ ho_0$
С	2Q ₀ /3	Q_0/L_0	$ ho_0$
D	$Q_0/3$	Q_0/L_0	$ ho_0$
Е	$Q_0/3$	$(^{1}/_{3})Q_{0}/L_{0}$	$ ho_0$
F	2Q ₀ /3	$(^{2}/_{3})Q_{0}/L_{0}$	$ ho_0$

