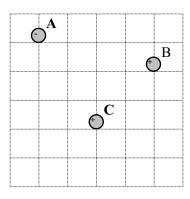
NameShow your work, and circle your answers and use sig figs to receive full credit. 1. What is the force of attraction between a -10.1 μ C charge and a +34.1 μ C charge if their centers apart? Is it a force of attraction or repulsion?	s are 67.0 cm
2. Two point charges have a force of repulsion of 45.3 N when they are 2.30 m separated. What is repulsion if they are separated by only 1.25 m?	s the force of
3. 450. Kg wrecking ball experiences a force of attraction to a 5.10 kg shot of $6.30 \times 10^{-10} \text{ N}$. What separates their centers?	distance
4. Two point masses have a force of attraction of 2.30×10^{-12} N when they are separated by 56.0 cm. What is their separation if the force of attraction is 5.80×10^{-12} N?	
5. Find the net force and direction on masses A , B and C : (A) 2.80 m (B) 4.50 m (C)	
$3.70 \times 10^6 \mathrm{kg}$ $1.90 \times 10^6 \mathrm{kg}$ $5.60 \times 10^6 \mathrm{kg}$	A =
	B =
	C =
6. Find the net force and direction on charges A , B and C : (A) 34.0 cm (B) 23.0 cm (C)	
$-81.0\mu\text{C}$ $+52.0\mu\text{C}$ $-67.0\mu\text{C}$	
	A = B =
	C =

7. Each grid line is a meter. Charge A is -430. μ C, and charge B is +120. μ C, and C is +780. μ C. Calculate the force on charge C. Draw the force vector and label its magnitude and direction.



9. Each grid line is a meter. Mass A is $1.20x10^6$ kg, and mass B is $3.10x10^6$ kg, and C is $6.80x10^6$ kg. **Calculate** the force on mass A. Draw the force vector and label its magnitude and direction.

