



## ANSWERS

### CHAPTER 1

- 1.1**  $6 \times 10^{-3} \text{ N}$  (repulsive)  
**1.2** (a) 12 cm  
(b) 0.2 N (attractive)  
**1.3**  $2.4 \times 10^{26}$ . This is the ratio of electric force to the gravitational force (at the same distance) between an electron and a proton.  
**1.5** Charge is not created or destroyed. It is merely transferred from one body to another.  
**1.6** Zero N  
**1.8** (a)  $5.4 \times 10^6 \text{ N C}^{-1}$  along OB  
(b)  $8.1 \times 10^{-3} \text{ N}$  along OA  
**1.9** Total charge is zero. Dipole moment =  $7.5 \times 10^{-8} \text{ C m}$  along z-axis.  
**1.10**  $10^{-6} \text{ N m}$   
**1.11** (a)  $2 \times 10^{12}$ , from wool to polythene.  
(b) Yes, but of a negligible amount ( $\approx 2 \times 10^{-12} \text{ kg}$  in the example).  
**1.12** (a)  $1.5 \times 10^{-3} \text{ N}$   
(b) 0.24 N  
**1.13** Charges 1 and 2 are negative, charge 3 is positive. Particle 3 has the highest charge to mass ratio.  
**1.14** (a)  $30 \text{ Nm}^2/\text{C}$ . (b)  $15 \text{ Nm}^2/\text{C}$   
**1.15** Zero. The number of lines entering the cube is the same as the number of lines leaving the cube.  
**1.16** (a)  $0.07 \text{ } \mu\text{C}$   
(b) No, only that the net charge inside is zero.  
**1.17**  $2.2 \times 10^3 \text{ N m}^2/\text{C}$   
**1.18**  $1.9 \times 10^3 \text{ N m}^2/\text{C}$   
**1.19** (a)  $-10^3 \text{ N m}^2/\text{C}$ ; because the charge enclosed is the same in the two cases.  
(b)  $-8.8 \text{ nC}$   
**1.20**  $-6.67 \text{ nC}$   
**1.21** (a)  $1.45 \times 10^{-9} \text{ C}$   
(b)  $1.6 \times 10^8 \text{ Nm}^2/\text{C}$   
**1.22**  $10 \text{ } \mu\text{C/m}$   
**1.23** (a) Zero. (b) Zero. (c)  $1.9 \text{ N/C}$

# Chapter 1holt Physics Answers

**RC Schank**



## Chapter 1 **Holt Physics Answers:**

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