

- 1) C. momentum  
Physics, Ch 1 #261
- 2) D. momentum  
Physics, Ch 1 #262
- 3) D. mass and velocity  
Physics, Ch 1 #263
- 4) A. momentum of cannon + momentum of projectile = 0  
Physics, Ch 1 #264
- 5) C. momentum  
Physics, Ch 1 #265
- 6) B. Both spheres have the same speed and the steel sphere has more momentum than the wooden sphere.  
Physics, Ch 1 #266
- 7) A. At the end of 3 seconds of free-fall, the 10-N ball will have a greater momentum than the 5-N ball.  
Physics, Ch 1 #267
- 8) B. 0 kg•m/s  
Physics, Ch 1 #268
- 9) D. 0 kg•m/s  
Physics, Ch 1 #269
- 10) D. 20,000 kg•m/s  
Physics, Ch 1 #270
- 11) A. 10 kg•m/s  
Physics, Ch 1 #271
- 12) A. 3.0 kg-m/sec  
Physics, Ch 1 #272
- 13) C. 80. kg•m/s  
Physics, Ch 1 #273
- 14) B.  $1.0 \times 10^3$  kg•m/s east  
Physics, Ch 1 #274
- 15) C. 0 kg•m/s  
Physics, Ch 1 #275

16) B. 0 N

Physics, Ch 1 #276

17) D. 8.0 kg•m/s

Physics, Ch 1 #277

18) (a)  $6.0 \times 10^3$  kg•m/s or 6,000 kg•m/s; (b) Answer is a plot.; (c) Answers may vary.

Physics, Ch 1 #278