

- c. 24,000 J
  - d. Not enough information to determine
3. What is the amount of potential energy at Point A?
- a. 0 J
  - b. 800 J
  - c. 2400 J
  - d. 24,000 J
4. What is the amount of kinetic energy at Point A?
- a. 0 J
  - b. 8000 J
  - c. 16,000 J
  - d. 24,000 J
5. What is the amount of potential energy at Point B?
- a. 0 J
  - b. 8000 J
  - c. 16,000 J
  - d. 24,000 J
6. What is the amount of kinetic energy at Point B?
- a. 0 J
  - b. 8000 J
  - c. 16,000 J
  - d. 24,000 J

**Lesson Objective:** Be able to use energy conservation in solving problems.

The total mechanical energy of the roller coaster cart below at Point A is 180,000 J. The speed of the cart at Point B is +20 m/s. Assume no energy is lost due to dissipative forces such as friction.

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**S Ben Porath**



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