

## Physics Questions

### Translational Motion

- Which of the following numbers is given to four significant figures?
  - 0.00020
  - 0.0020
  - 2.000
  - 2000
- An auto travels at the rate of 25 km/h for 4.0 minutes, then at 50 km/h for 8.0 minutes, and finally at 20 km/h for 2.0 minutes. Find (a) the total distance covered in km and (b) the average speed for the complete trip in m/s.
  - (a) 540 km, (b) 642 m/s
  - (a) 12.5 km, (b) 38.6 m/s
  - (a) 10.7 km, (b) 126 m/s
  - (a) 9.0 km, (b) 10.7 m/s
- A body with initial velocity 8.0 m/s moves along a straight line with constant acceleration and travels 640 m in 40 s. For the 40 s interval, find (a) the average velocity, (b) the final velocity, and (c) the acceleration.
  - (a) 4.0 m/s, (b) 8.0 m/s, (c) 0.6 m/s<sup>2</sup>
  - (a) 24 m/s, (b) 16 m/s, (c) 0.20 m/s<sup>2</sup>
  - (a) 16 m/s, (b) 24 m/s, (c) 0.40 m/s<sup>2</sup>
  - (a) 0.4 m/s, (b) 160 m/s, (c) 16 m/s<sup>2</sup>
- A bottle dropped from a balloon reaches the ground in 20 s. Determine the height of the balloon if (a) it was at rest in the air and (b) it was ascending with a speed of 50 m/s when the bottle was dropped.
  - (a) 98 km, (b) 2960 km
  - (a) 196 km, (b) 1960 km
  - (a) 0.49 km, (b) 1000 km
  - (a) 2.0 km, (b) 0.96 km
- A bug starts at point *A*, crawls 8.0 cm east, then 5.0 cm south, 3.0 cm west, and 4.0 cm north to point *B*. (a) How far north and east is *B* from *A*? (b) Find the displacement from *A* to *B* both graphically and algebraically.
  - (a) 5.0 cm - EAST, 1.0 cm - SOUTH, (b) 5.10 cm - 11.3° SOUTH OF EAST
  - (a) 11.0 cm - EAST, 1.0 cm - SOUTH, (b) 11.1 cm - 5.2° SOUTH OF EAST
  - (a) 5.0 cm - EAST, 1.0 cm - NORTH, (b) 5.1 cm - 11.3° NORTH OF EAST
  - (a) 5.0 cm - EAST, 9.0 cm - SOUTH, (b) 10.1 cm - 60.9° SOUTH OF EAST

# **Mcat Physics Practice Problems**

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