

## Physics 12 Review #16

1.

A falling 0.60 kg object experiences a frictional force due to air resistance of 1.5 N. What is the object's acceleration?

- A.  $2.5 \text{ m/s}^2$
- B.  $4.4 \text{ m/s}^2$
- C.  $7.3 \text{ m/s}^2$
- D.  $12 \text{ m/s}^2$

2.

A 1200 kg vehicle is accelerated from rest to 15 m/s over a distance of 85 m. What is the net force on the car during this acceleration?

- A. 1 600 N
- B. 3 200 N
- C. 6 800 N
- D. 10 000 N