

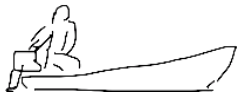
Cycle 14 Kinematics

2 More Practice



1. You push your friend from rest, accelerating at 1.2 m/s^2 , reaching a velocity of 6 m/s .

- How far did you travel?
- How long did it take?



2. The motorboat, moving at 10 m/s shuts off its engine and steadily glides to a halt over the course of 6 seconds.

- How far did it travel?
- What was the acceleration?

3. a) Calculate the acceleration of the sprinter.

b) Calculate how much time the speed up took.

4 m/s →



→ 8 m/s



← ----- 30 m ----- →

4. The rocket, already traveling at 100 m/s , accelerates for 10 seconds, covering 5,000 m.

- Calculate the acceleration of the rocket.
- Calculate the rocket's final speed.

