

Sample Problem Set 1 Solutions

Motion in One Dimension

Teacher Notes and Answer Key

ADDITIONAL PRACTICE B

Given:

1. $t_1 = 0$ seconds to 40 meters
 $a_{avg} = 3.0 \text{ m/s}^2$
 $\Delta t = 3.00 \text{ sec}$

Solution:

$$v_f = v_{avg} \Delta t + v_i = (3.00 \text{ m/s}^2)(3.00 \text{ sec})\left(\frac{60 \text{ s}}{1 \text{ min}}\right) + 0 \text{ m/s} = \boxed{540 \text{ m/s}}$$

$$v_f = 540 \text{ m/s} = 540 \text{ m/s} \left(\frac{3600 \text{ s}}{1 \text{ hr}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = \boxed{1944 \text{ km/hr}}$$

2. $\Delta t = 3.0 \text{ sec}$
 $a_{avg} = 60.0 \text{ m/s}^2$
 $v_i = 0 \text{ m/s}$

$$v_f = v_{avg} \Delta t + v_i = (60.0 \text{ m/s}^2)(3.0 \text{ sec})\left(\frac{60 \text{ s}}{1 \text{ min}}\right) + 0 \text{ m/s} = \boxed{1.08 \text{ km/s}}$$

3. $\Delta t = 40.0 \text{ s}$
 $a_{avg} = 0.25 \text{ m/s}^2$
 $v_i = 0 \text{ m/s}$

$$v_f = v_{avg} \Delta t + v_i = (0.25 \text{ m/s}^2)(40.0 \text{ s}) + 0 \text{ m/s} = \boxed{10 \text{ m/s}}$$

4. $\Delta t = 20 \text{ min}$
 $\Delta t = 1,200 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{20 \text{ km/s}}{1,200 \text{ s} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right)} = \boxed{1.7 \text{ m/s}^2}$$

$v_i = 0.00 \text{ m/s}$
 $v_f = 0.1 \text{ km/s}$
 $\Delta t = 20.0 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{0.1 \text{ km/s} = 100 \text{ m/s}}{20.0 \text{ s}} = \frac{1.1 \text{ km/s}}{20.0 \text{ s}} = \boxed{5.0 \times 10^{-2} \text{ km/s}^2}$$

5. $\Delta t = 1.5 \text{ hours} \left(\frac{3600 \text{ sec}}{1 \text{ hour}} \right)$
 $= 5,400 \text{ s} = 5.4 \times 10^3 \text{ s}$
 $\Delta t_{avg} = 0.25 \text{ s}$
 $v_i = 0 \text{ m/s}$
 $v_{f \text{ avg}} = 0.500 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{0.500 \text{ m/s}}{5,400 \text{ s}} = \boxed{9.3 \text{ m/s}^2}$$

$$a_{avg} = \frac{v_f - v_i}{\Delta t_{avg}} = \frac{0.500 \text{ m/s} - 0 \text{ m/s}}{0.25 \text{ s}} = \frac{2.00 \text{ m/s}}{0.25 \text{ m/s}} = \boxed{8.0 \times 10^3 \text{ m/s}^2}$$

6. $\Delta t = 1.00 \times 10^2 \text{ sec, backward}$
 $= -1.00 \times 10^2 \text{ sec}$
 $\Delta t = 1.0 \text{ s}$
 $\Delta t = 100 \text{ s}$
 $v_i = 0 \text{ m/s}$
 $v_f = -5 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{-5.00 \text{ m/s} - 0 \text{ m/s}}{100 \text{ s}} = -0.05 \text{ m/s}^2$$

$$a_{avg} = \frac{v_f - v_i}{\Delta t} = \frac{-5.00 \text{ m/s} - 0 \text{ m/s}}{1.00 \text{ s}} = \boxed{-5.00 \text{ m/s}^2}$$

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