

Sample Problem Set 1 Solutions

# Motion in One Dimension

## Teacher Notes and Answer Key

### ADDITIONAL PRACTICE B

#### Given:

1.  $v_1 = 0$  km/h or 0 m/s  
 $a_{avg} = 3.0 \text{ m/s}^2$   
 $\Delta t = 1.00 \text{ m/s}$

#### Solution:

$$v_2 = v_{avg} \Delta t \Rightarrow v_2 = (3.00 \text{ m/s}^2)(1.00 \text{ m/s}) \left( \frac{1000 \text{ m}}{1 \text{ km}} \right) + 0 \text{ m/s} = \boxed{3.00 \text{ km/s}}$$

$$v_2 = 3.00 \text{ km/s} = 3.00 \text{ km/s} \left( \frac{3600 \text{ s}}{1 \text{ h}} \right) \left( \frac{1 \text{ km}}{1000 \text{ m}} \right) = \boxed{10.8 \text{ km/h}}$$

2.  $\Delta t = 2.0 \text{ m/s}$   
 $a_{avg} = 6.0 \text{ m/s}^2$   
 $v_1 = 0 \text{ m/s}$

$$v_2 = v_{avg} \Delta t \Rightarrow v_2 = (6.0 \text{ m/s}^2)(2.0 \text{ m/s}) \left( \frac{1000 \text{ m}}{1 \text{ km}} \right) + 0 \text{ m/s} = \boxed{12 \text{ km/s}}$$

3.  $\Delta t = 40.0 \text{ s}$   
 $a_{avg} = 0.20 \text{ m/s}^2$   
 $v_1 = 0 \text{ m/s}$

$$v_2 = v_{avg} \Delta t \Rightarrow v_2 = (0.20 \text{ m/s}^2)(40.0 \text{ s}) + 0 \text{ m/s} = \boxed{8.00 \text{ m/s}}$$

4.  $\Delta t = 20 \text{ m/s}$   
 $\Delta t = 3.00 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{20 \text{ m/s}}{3.00 \text{ s}} = \boxed{6.67 \text{ m/s}^2}$$

$v_1 = 0.00 \text{ m/s}$   
 $v_2 = 6.6 \text{ m/s}$   
 $\Delta t = 20.0 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{6.6 \text{ m/s} - 0.00 \text{ m/s}}{20.0 \text{ s}} = \frac{6.6 \text{ m/s}}{20.0 \text{ s}} = \boxed{0.33 \text{ m/s}^2}$$

5.  $\Delta t = 1.0 \text{ m/s} \left( \frac{3600 \text{ s}}{1 \text{ hour}} \right)$   
 $= 3.60 \times 10^3 \text{ s}$   
 $\Delta t = 40.0 \text{ s}$   
 $a_{avg} = 0.25 \text{ s}$   
 $v_1 = 0 \text{ m/s}$   
 $v_2 = 10 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.0 \text{ m/s}}{3600 \text{ s}} = \boxed{2.78 \times 10^{-4} \text{ m/s}^2}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{10 \text{ m/s} - 0 \text{ m/s}}{40.0 \text{ s}} = \frac{10 \text{ m/s}}{40.0 \text{ s}} = \boxed{0.25 \text{ m/s}^2}$$

6.  $\Delta t = 1.00 \times 10^2 \text{ s}$ , accelerated  
 $= 1.00 \times 10^2 \text{ s}$   
 $\Delta t = 1.0 \text{ s}$   
 $\Delta t = 2.00 \text{ s}$   
 $v_1 = 0 \text{ m/s}$   
 $v_2 = 10 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.00 \times 10^2 \text{ m/s}}{1.00 \text{ s}} = 1.00 \times 10^2 \text{ m/s}^2$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t} = \frac{10 \text{ m/s} - 0 \text{ m/s}}{2.00 \text{ s}} = \boxed{5.00 \text{ m/s}^2}$$

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**Annelies Wilder-Smith**



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