

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  
 $a_{avg} = 3.6 \text{ m/s}^2$   
 $\Delta t = 3.65 \text{ m/s}$

#### Solution:

$$v_2 = v_{avg} \Delta t \Rightarrow v_2 = (3.65 \text{ m/s}^2)(3.65 \text{ m/s}) \left( \frac{3600 \text{ s}}{1 \text{ hr}} \right) + 0 \text{ m/s} = \boxed{4888 \text{ m/s}}$$

$$v_2 = 4888 \text{ m/s} = 4.888 \text{ m/s} \left( \frac{3600 \text{ s}}{1 \text{ hr}} \right) \left( \frac{1 \text{ km}}{1000 \text{ m}} \right) = \boxed{1760 \text{ km/h}}$$

2.  $\Delta t = 3.6 \text{ m/s}$   
 $a_{avg} = 6.24 \text{ m/s}^2$   
 $v_1 = 0 \text{ m/s}$

$$v_2 = v_{avg} \Delta t \Rightarrow v_2 = (6.24 \text{ m/s}^2)(3.6 \text{ m/s}) \left( \frac{3600 \text{ s}}{1 \text{ hr}} \right) + 0 \text{ m/s} = \boxed{8.1 \text{ km/h}}$$

3.  $\Delta t = 45.0 \text{ s}$   
 $a_{avg} = 3.24 \text{ m/s}^2$   
 $v_1 = 0 \text{ m/s}$

$$v_2 = v_{avg} \Delta t \Rightarrow v_2 = (3.24 \text{ m/s}^2)(45.0 \text{ s}) + 0 \text{ m/s} = \boxed{146 \text{ m/s}}$$

4.  $\Delta t = 24 \text{ m/s}$   
 $\Delta t = 3.65 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{24 \text{ m/s}}{3.65 \text{ s} \left( \frac{3600 \text{ s}}{1 \text{ hr}} \right)} = \boxed{1.1 \text{ m/s}^2}$$

$v_1 = 3.65 \text{ m/s}$   
 $v_2 = 4.1 \text{ m/s}$   
 $\Delta t = 28.0 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{4.1 \text{ m/s} - 3.65 \text{ m/s}}{28.0 \text{ s}} = \frac{0.45 \text{ m/s}}{28.0 \text{ s}} = \boxed{0.016 \text{ m/s}^2}$$

5.  $\Delta t = 1.1 \text{ hr} \left( \frac{3600 \text{ s}}{1 \text{ hr}} \right)$   
 $= 3.96 \times 10^3 \text{ s}$   
 $\Delta t_{avg} = 6.24 \text{ s}$   
 $v_1 = 0 \text{ m/s}$   
 $v_2 = 4.55 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{4.55 \text{ m/s}}{3.96 \times 10^3 \text{ s}} = \boxed{1.15 \text{ m/s}^2}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{4.55 \text{ m/s} - 0 \text{ m/s}}{6.24 \text{ s}} = \frac{0.729 \text{ m/s}}{6.24 \text{ s}} = \boxed{0.12 \text{ m/s}^2}$$

6.  $\Delta t = 3.65 \times 10^3 \text{ s}$ ,  $a_{avg} = 3.65 \text{ m/s}^2$   
 $\Delta t = 3.6 \text{ s}$   
 $\Delta t = 3.65 \text{ s}$   
 $v_1 = 0 \text{ m/s}$   
 $v_2 = 0 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{3.65 \text{ m/s}}{3.6 \text{ s}} = 1.01 \text{ m/s}^2$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t} = \frac{0 \text{ m/s} - 0 \text{ m/s}}{3.65 \text{ s}} = \boxed{0 \text{ m/s}^2}$$

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