

Sample Problem Set 1 Solutions

# Motion in One Dimension

## Teacher Notes and Answer Key

### ADDITIONAL PRACTICE B

#### Given:

1.  $v_1 = 0$  km/h at  $t = 0$  min  
 $a_{avg} = 3.6 \text{ m/s}^2$   
 $\Delta t = 1.65$  min

#### Solution:

$$v_2 = v_{avg} \Delta t = v_1 + (3.6 \text{ m/s}^2)(1.65 \text{ min}) \left( \frac{60 \text{ s}}{1 \text{ min}} \right) + 0 \text{ km/h} = \boxed{1.48 \text{ km/h}}$$

$$v_2 = 1.48 \text{ km/h} = 1.48 \text{ km/h} \left( \frac{1000 \text{ m}}{1 \text{ km}} \right) \left( \frac{1 \text{ h}}{3600 \text{ s}} \right) = \boxed{0.41 \text{ m/s}}$$

2.  $\Delta t = 2.8$  min  
 $a_{avg} = 0.24 \text{ m/s}^2$   
 $v_1 = 0$  km/h

$$v_2 = v_{avg} \Delta t = v_1 + (0.24 \text{ m/s}^2)(2.8 \text{ min}) \left( \frac{60 \text{ s}}{1 \text{ min}} \right) + 0 \text{ km/h} = \boxed{3.7 \text{ km/h}}$$

3.  $\Delta t = 45.0$  s  
 $a_{avg} = 0.24 \text{ m/s}^2$   
 $v_1 = 0$  km/h

$$v_2 = v_{avg} \Delta t = v_1 + (0.24 \text{ m/s}^2)(45.0 \text{ s}) + 0 \text{ km/h} = \boxed{1.08 \text{ km/h}}$$

4.  $\Delta t = 25 \text{ min}$   
 $\Delta t = 1.667$  h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{25 \text{ km/h}}{1.667 \text{ h}} = \boxed{1.5 \text{ km/h}^2}$$

$v_1 = 0.00$  km/h  
 $v_2 = 4.5$  km/h  
 $\Delta t = 28.0$  s

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{4.5 \text{ km/h} - 0.00 \text{ km/h}}{28.0 \text{ s}} = \frac{1.1 \text{ km/h}}{28.0 \text{ s}} = \boxed{0.039 \text{ km/h}^2 \cdot \text{s}}$$

5.  $\Delta t = 1.5 \text{ hours} \left( \frac{3600 \text{ s}}{1 \text{ hour}} \right)$   
 $= 5.4 \times 10^3 \text{ s}$   
 $\Delta t = 48.0$  s  
 $a_{avg} = 0.24$  m/s<sup>2</sup>  
 $v_1 = 0$  km/h  
 $v_2 = 1.08$  km/h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.08 \text{ km/h}}{48.0 \text{ s}} = \boxed{2.25 \text{ km/h}^2 \cdot \text{s}}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{0 \text{ km/h} - 1.08 \text{ km/h}}{48.0 \text{ s}} = \frac{-0.0225 \text{ km/h}}{48.0 \text{ s}} = \boxed{-0.47 \text{ km/h}^2 \cdot \text{s}}$$

6.  $\Delta t = 1.44 \times 10^3$  s, km/hour  
 $= 1.44 \times 10^3 \text{ km/h}$   
 $\Delta t = 14.4$  s  
 $\Delta t = 2.00$  s  
 $v_1 = 0$  km/h  
 $v_2 = 1.08$  km/h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.08 \text{ km/h}}{14.4 \text{ s}} = \frac{0.075 \text{ km/h}}{14.4 \text{ s}} = \boxed{5.2 \text{ km/h}^2 \cdot \text{s}}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t} = \frac{1.08 \text{ km/h} - 0 \text{ km/h}}{2.00 \text{ s}} = \boxed{0.54 \text{ km/h}^2 \cdot \text{s}}$$

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