

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:

$$v_2 = v_{avg} \Delta t + v_1 = (3.6 \text{ m/s}^2)(1.65 \text{ min}) \left( \frac{60 \text{ s}}{1 \text{ min}} \right) + 0 \text{ km/h} = \boxed{1.404 \text{ km/h}}$$

$$v_2 = 1.404 \text{ km/h} = 1.404 \text{ km/h} \left( \frac{1000 \text{ m}}{1 \text{ km}} \right) \left( \frac{1 \text{ hr}}{3600 \text{ s}} \right) = \boxed{389 \text{ m/s}}$$

2.  $\Delta t = 2.4$  min  
 $a_{avg} = 6.24 \text{ m/s}^2$   
 $v_1 = 0$  km/h

$$v_2 = v_{avg} \Delta t + v_1 = (6.24 \text{ m/s}^2)(2.4 \text{ min}) \left( \frac{60 \text{ s}}{1 \text{ min}} \right) + 0 \text{ km/h} = \boxed{7.1 \text{ km/h}}$$

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

$$v_2 = v_{avg} \Delta t + v_1 = (3.24 \text{ m/s}^2)(45.0 \text{ s}) + 0 \text{ km/h} = \boxed{1.46 \text{ km/h}}$$

4.  $\Delta t = 24.750$  s  
 $\Delta d = 3.000$  m

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{24.750 \text{ m}}{3.000 \text{ s} \left( \frac{3600 \text{ s}}{1 \text{ hr}} \right)} = \boxed{2.2 \text{ m/s}^2}$$

$v_1 = 0.000$  km/h  
 $v_2 = 4.5$  km/h  
 $\Delta t = 28.0$  s

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{4.5 \text{ km/h} - 0.000 \text{ km/h}}{28.0 \text{ s}} = \frac{1.25 \text{ km/h}}{28.0 \text{ s}} = \boxed{0.045 \text{ m/s}^2}$$

5.  $\Delta t = 1.15$  hours  $\left( \frac{3600 \text{ s}}{1 \text{ hour}} \right)$   
 $= 4.14 \times 10^3$  s  
 $\Delta d = 48.0$  m  
 $a_{avg} = 0.27$  m  
 $v_1 = 0$  km/h  
 $v_2 = 1.50$  km/h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.50 \text{ km/h}}{4.14 \times 10^3 \text{ s}} = \boxed{3.62 \times 10^{-5} \text{ m/s}^2}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{0 \text{ km/h} - 1.50 \text{ km/h}}{4.14 \times 10^3 \text{ s}} = \frac{-1.50 \text{ km/h}}{4.14 \times 10^3 \text{ s}} = \boxed{-3.6 \times 10^{-5} \text{ m/s}^2}$$

6.  $\Delta t = 3.40 \times 10^2$  s,  $a_{avg} = 0.000$  m/s  
 $= 3.40 \times 10^2$  s  
 $\Delta d = 14.4$  m  
 $\Delta t = 2.000$  s  
 $v_1 = 0$  km/h  
 $v_2 = 1.50$  km/h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.50 \text{ km/h} - 0 \text{ km/h}}{2.000 \text{ s}} = 0.75 \text{ km/h}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t} = \frac{1.50 \text{ km/h} - 0 \text{ km/h}}{2.000 \text{ s}} = \boxed{0.75 \text{ km/h}}$$

# Holt Mcdougal Physics 2012 Answer Key

**Roman Wölfel**



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