

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:

$$v_1 = v_{avg} \Delta t + v_0 = (3.00 \text{ m/s}^2)(3.00 \text{ sec})\left(\frac{60 \text{ s}}{1 \text{ min}}\right) + 0 \text{ m/s} = \boxed{540 \text{ m/s}}$$

$$v_2 = 540 \text{ m/s} = 3.00 \text{ sec}\left(\frac{3600 \text{ s}}{1 \text{ h}}\right)\left(\frac{1 \text{ km}}{1000 \text{ m}}\right) = \boxed{1.94 \text{ km/s}}$$

2. $\Delta t = 3.0 \text{ sec}$
 $a_{avg} = 60.0 \text{ m/s}^2$
 $v_0 = 0 \text{ m/s}$

$$v_1 = v_{avg} \Delta t + v_0 = (60.0 \text{ m/s}^2)(3.0 \text{ sec})\left(\frac{60 \text{ s}}{1 \text{ min}}\right) + 0 \text{ m/s} = \boxed{1.1 \text{ km/s}}$$

3. $\Delta t = 40.0 \text{ s}$
 $a_{avg} = 0.25 \text{ m/s}^2$
 $v_0 = 0 \text{ m/s}$

$$v_1 = v_{avg} \Delta t + v_0 = (0.25 \text{ m/s}^2)(40.0 \text{ s}) + 0 \text{ m/s} = \boxed{10.0 \text{ m/s}}$$

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

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

$v_1 = 0.000 \text{ m/s}$
 $v_2 = 0.1 \text{ km/s}$
 $\Delta t = 20.0 \text{ s}$

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

5. $\Delta t = 1.1 \text{ sec}\left(\frac{3600 \text{ s}}{1 \text{ hr}}\right)$
 $= 3.96 \times 10^3 \text{ s}$
 $\Delta t_{avg} = 0.25 \text{ s}$
 $a_{avg} = 0.25 \text{ s}$
 $v_0 = 0 \text{ m/s}$
 $v_{avg} = 0.25 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{0.25 \times 10^3 \text{ m}}{3960 \text{ s}} = \boxed{6.3 \text{ m/s}^2}$$

$$a_{avg} = \frac{v_1 - v_0}{\Delta t_{avg}} = \frac{0 \text{ m/s} - 0.25 \text{ m/s}}{0.25 \text{ s}} = \frac{-0.25 \text{ m/s}}{0.25 \text{ m/s}} = \boxed{-1.0 \times 10^3 \text{ m/s}^2}$$

6. $\Delta t = 1.00 \times 10^2 \text{ yr, backward}$
 $= -1.00 \times 10^7 \text{ sec}$
 $\Delta t = 1.0 \text{ yr}$
 $\Delta t = 3.16 \times 10^7 \text{ s}$
 $v_0 = 0 \text{ m/s}$
 $v_1 = 0 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{-1.00 \times 10^7 \text{ m}}{3.16 \times 10^7 \text{ s}} = -0.32 \text{ m/s}^2$$

$$a_{avg} = \frac{v_1 - v_0}{\Delta t} = \frac{0 \text{ m/s} - 0 \text{ m/s}}{3.16 \text{ s}} = \boxed{0 \text{ m/s}^2}$$

Holt Physics 19a Additional Practice

Camilla Rothe



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