

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:

$$v_2 = v_{avg} \Delta t + v_1 = (3.00 \text{ m/s}^2)(1.00 \text{ m/s})\left(\frac{1000 \text{ m}}{1 \text{ km/h}}\right) + 0 \text{ m/s} = \boxed{3000 \text{ km/h}}$$

$$v_2 = 3000 \text{ m/s} = 3.00 \text{ km/s} \left(\frac{3600 \text{ s}}{1 \text{ h}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = \boxed{3.60 \text{ km/h}}$$

2. $\Delta t = 2.0 \text{ m/s}$

$a_{avg} = 60.0 \text{ m/s}^2$

$v_1 = 0 \text{ m/s}$

$$v_2 = v_{avg} \Delta t + v_1 = (60.0 \text{ m/s}^2)(2.0 \text{ m/s})\left(\frac{1000 \text{ m}}{1 \text{ km/h}}\right) + 0 \text{ m/s} = \boxed{12 \text{ km/h}}$$

3. $\Delta t = 40.0 \text{ s}$

$a_{avg} = 0.20 \text{ m/s}^2$

$v_1 = 0 \text{ m/s}$

$$v_2 = v_{avg} \Delta t + v_1 = (0.20 \text{ m/s}^2)(40.0 \text{ s}) + 0 \text{ m/s} = \boxed{8.00 \text{ m/s}}$$

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

$\Delta t = 3.00 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{20 \text{ m/s}}{3.00 \text{ s} \left(\frac{3600 \text{ s}}{1 \text{ h}} \right)} = \boxed{1.1 \text{ m/s}^2}$$

$v_1 = 0.00 \text{ m/s}$

$v_2 = 4.0 \text{ m/s}$

$\Delta t = 20.0 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{4.0 \text{ m/s} - 0.00 \text{ m/s}}{20.0 \text{ s}} = \frac{1.1 \text{ m/s}}{20.0 \text{ s}} = \boxed{0.055 \text{ m/s}^2}$$

5. $\Delta t = 1.0 \text{ m/s} \left(\frac{3600 \text{ s}}{1 \text{ hour}} \right)$

$= 3.60 \times 10^3 \text{ s}$

$\Delta t = 40.0 \text{ s}$

$\Delta t_{avg} = 0.25 \text{ s}$

$v_1 = 0 \text{ m/s}$

$v_2 = 10 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.0 \text{ m/s}}{3.60 \times 10^3 \text{ s}} = \boxed{1.20 \times 10^{-4} \text{ m/s}^2}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{10 \text{ m/s} - 0 \text{ m/s}}{0.25 \text{ s}} = \frac{10 \text{ m/s}}{0.25 \text{ m/s}} = \boxed{40 \text{ m/s}^2}$$

6. $\Delta t = 1.00 \times 10^2 \text{ m/s, backward}$

$= -1.00 \times 10^2 \text{ m/s}$

$\Delta t = 1.0 \text{ s}$

$\Delta t = 2.00 \text{ s}$

$v_1 = 0 \text{ m/s}$

$v_2 = 10 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{-1.00 \times 10^2 \text{ m/s}}{2.00 \text{ s}} = -50 \text{ m/s}^2$$

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

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