

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:

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

$$v_2 = 1.404 \text{ km/h} = 1.404 \text{ km/h} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right) \left(\frac{1 \text{ hr}}{3600 \text{ s}} \right) = \boxed{388 \text{ m/s}}$$

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
 $\Delta d = 3.00$ m

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{24.750 \text{ m}}{3.00 \text{ m} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right) \left(\frac{1 \text{ hr}}{3600 \text{ s}} \right)} = \boxed{3.1 \text{ km/h}^2}$$

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

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{4.5 \text{ km/h} - 0.00 \text{ km/h}}{28.0 \text{ s}} = \frac{1.1 \text{ km/h}}{28.0 \text{ s}} = \boxed{3.97 \times 10^{-2} \text{ km/h}^2}$$

5. $\Delta t = 1.15 \text{ hours} \left(\frac{3600 \text{ s}}{1 \text{ hour}} \right)$
 $= 4.14 \times 10^3 \text{ s}$
 $\Delta d = 48.0$ m
 $a_{avg} = 6.24$ m
 $v_1 = 0$ km/h
 $v_2 = 12.50$ km/h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{12.50 \text{ km/h}}{4.14 \times 10^3 \text{ s}} = \boxed{3.02 \text{ km/h}^2}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{12.50 \text{ km/h} - 0.00 \text{ km/h}}{4.14 \times 10^3 \text{ s}} = \boxed{-3.0 \times 10^2 \text{ km/h}^2}$$

6. $\Delta t = 3.40 \times 10^2$ s, $a_{avg} = 1.40 \times 10^2$ m/s
 $\Delta d = 14.0$ m
 $\Delta t = 2.00$ s
 $v_1 = 0$ km/h
 $v_2 = 1$ km/h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.00 \text{ km/h} - 0.00 \text{ km/h}}{2.00 \text{ s}} = 0.50 \text{ km/h}^2$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t} = \frac{1.00 \text{ km/h} - 0 \text{ km/h}}{2.00 \text{ s}} = \boxed{0.50 \text{ km/h}^2}$$

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DJ Losen



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