

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

$a_{avg} = 3.0 \text{ m/s}^2$

$\Delta t = 1.00$ min

Solution:

$$v_2 = v_{avg} \Delta t + v_1 = (3.00 \text{ m/s}^2)(1.00 \text{ min})\left(\frac{60 \text{ s}}{1 \text{ min}}\right) + 0 \text{ km/h} = \boxed{1.08 \text{ km/h}}$$

$$v_2 = 1.08 \text{ km/h} = 0.68 \text{ m/s} \left(\frac{3600 \text{ s}}{1 \text{ h}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = \boxed{0.68 \text{ m/s}}$$

2. $\Delta t = 2.0$ min

$a_{avg} = 0.25 \text{ m/s}^2$

$v_1 = 0$ km/h

$$v_2 = v_{avg} \Delta t + v_1 = (0.25 \text{ m/s}^2)(2.0 \text{ min})\left(\frac{60 \text{ s}}{1 \text{ min}}\right) + 0 \text{ km/h} = \boxed{3.0 \text{ km/h}}$$

3. $\Delta t = 40.0$ s

$a_{avg} = 0.25 \text{ m/s}^2$

$v_1 = 0$ km/h

$$v_2 = v_{avg} \Delta t + v_1 = (0.25 \text{ m/s}^2)(40.0 \text{ s}) + 0 \text{ km/h} = \boxed{1.00 \text{ km/h}}$$

4. $\Delta t = 20.000$ s

$\Delta d = 3.000$ m

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{20.000 \text{ m}}{(3.000 \text{ m})\left(\frac{1000 \text{ m}}{1 \text{ km}}\right)} = \boxed{6.67 \text{ m/s}^2}$$

$v_1 = 0.000$ km/h

$v_2 = 6.67$ km/h

$\Delta t = 20.000$ s

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{6.67 \text{ km/h} - 0.000 \text{ km/h}}{20.000 \text{ s}} = \frac{6.67 \text{ km/h}}{20.00 \text{ s}} = \boxed{0.3335 \text{ km/h}^2 \cdot \text{s}}$$

5. $\Delta t = 1.15$ hours $\left(\frac{3600 \text{ s}}{1 \text{ hour}} \right)$

$\Delta d = 400.0$ m

$\Delta t_{avg} = 0.25$ s

$a_{avg} = 0.25$ s

$v_1 = 0$ km/h

$v_2 = 0.25$ km/h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{0.25 \text{ km/h}}{0.25 \text{ s}} = \boxed{1.00 \text{ km/h}^2 \cdot \text{s}}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{0.25 \text{ km/h} - 0.000 \text{ km/h}}{0.25 \text{ s}} = \frac{0.25 \text{ km/h}}{0.25 \text{ km/h}} = \boxed{1.0 \text{ km/h}^2 \cdot \text{s}}$$

6. $\Delta t = 3.00 = 3.00 \times 10^2$ s, $a_{avg} = 0.000$ m/s²

$\Delta d = 3.0$ m

$\Delta t = 3.000$ s

$v_1 = 0$ km/h

$v_2 = 0$ km/h

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{0.000 \text{ m/s}^2}{3.00 \text{ s}} = 0.000 \text{ m/s}^2 = 0.00 \text{ km/h}^2 \cdot \text{s}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t} = \frac{0.00 \text{ km/h} - 0 \text{ km/h}}{3.000 \text{ s}} = \boxed{0.000 \text{ km/h}^2 \cdot \text{s}}$$

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