

MOTION REVIEW PROBS

1. GIVEN: $d = 100\text{ m}$
 $t = 9.69\text{ s}$
 $\bar{v} = ?$

SOLVE:
 $v = \frac{d}{t} = \frac{100\text{ m}}{9.69\text{ s}} =$

4. GIVEN: $\bar{v} = 9.8\text{ m/s}$
 $d = 73\text{ m}$
 $t = ?$

$v = \frac{d}{t} \quad t = \frac{d}{v} = \frac{73\text{ m}}{9.8\text{ m/s}} =$

5. GIVEN: $v_i = 9.37\text{ m/s}$
 $a = -4.06\text{ m/s}^2$

a) $t = ?$ $a = \frac{v_f - v_i}{t}$
 $v_f = 0$

$t = \frac{v_f - v_i}{a} = \frac{0 - 9.37}{-4.06}$

$t =$

b) $\bar{v} = \frac{d}{t} \quad d = \bar{v} \cdot t \quad \bar{v} = \frac{v_f + v_i}{2} = \frac{9.37 + 0}{2} = 4.68\text{ m/s}$
 $d = (4.68\text{ m/s}) \cdot t$

6. GIVEN: $\bar{v}_1 = 5.8\text{ m/s}$ $\bar{v}_1 = \frac{d_1}{t_1} \quad d_1 = \bar{v}_1 \cdot t_1 = (5.8\text{ m/s}) \cdot t_1$
 $t_1 = 12.9\text{ min}$ $d_1 =$

$\bar{v}_2 = 6.10\text{ m/s}$ $t_1 = 12.9\text{ min} \times \frac{60\text{ s}}{1\text{ min}} =$

$t_2 = 7.1\text{ min}$ $t_2 = 7.1\text{ min} \times \frac{60\text{ s}}{1\text{ min}} =$ $d_2 = (6.10\text{ m/s}) \cdot t_2$
 $d_2 =$

$d_{\text{total}} = ?$

$d_{\text{total}} = d_1 + d_2 =$

10. a) $d_{\text{total}} =$ From 0-4s $d = 8\text{ m}$
 4-6s $d = 0$
 6-8s $d = 4\text{ m}$
 8-10s $d = 0$
 10-14s $d = 4\text{ m}$
 14-16s $d = 8\text{ m}$
 24 m

b) displacement = 0
 because he wound up
 back where he started.

c.) displacement @ 12s.
 initial position = 0
 position at 12s = 6m
 displ at 12s = 6m

Everyday Physical Science Answers

RJ Shavelson



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