

1. Quiz - Average Speed Problems
2. Topics for Next Week's Test
3. Understanding Concepts: Page 365, #1-6
4. Chapter 9 - Review

Understanding Concepts: Page 376 -> #1, 3
Applying Inquiry Skills: Page 376 -> #7-10, 12 (a, b)
Making Connections: Page 377 -> #14

} HW

Test: Chapter 9 -> Wednesday

5. Chapter 10 - Distance, Speed and Acceleration (Page 378)



Quiz - Average Speed Problems #1

Solutions

1. a) $d = 35.0 \text{ km}$
 $t = 2.8 \text{ h}$
 $v_{\text{ave}} = ?$

$$v_{\text{ave}} = \frac{d}{t}$$

$$v_{\text{ave}} = \frac{35.0 \text{ km}}{2.8 \text{ h}}$$

$$v_{\text{ave}} = 13 \frac{\text{km}}{\text{h}}$$

The average speed was $13 \frac{\text{km}}{\text{h}}$

b) $v_{\text{ave}} = 13 \frac{\text{km}}{\text{h}}$ $v_{\text{ave}} = \frac{d}{t}$
 $t = 5.3 \text{ h}$ $d = v_{\text{ave}} \cdot t$
 $d = ?$ $d = (13 \frac{\text{km}}{\text{h}})(5.3 \text{ h})$
 $d = 69 \text{ km}$

→ The distance was 69 km.

2. $d = 604 \text{ m}$ $v_{\text{ave}} = \frac{d}{t}$

$$v_{\text{ave}} = 341 \frac{\text{m}}{\text{s}}$$

$$t = ?$$

$$t = \frac{d}{v_{\text{ave}}}$$

$$t = \frac{604 \text{ m}}{341 \frac{\text{m}}{\text{s}}}$$

$$t = 1.77 \text{ s}$$



$$1.77 \text{ s} \times \left(\frac{1 \text{ min}}{60 \text{ s}} \right) = 0.0295 \text{ min}$$

1 min = 60 s

→ The time is 0.0295 min.

Quiz - Average Speed Problems #2
 Partial Solutions

1. a) $V_{ave} = 70.8 \frac{\text{km}}{\text{h}}$

b) $V_{ave} = 70.8 \frac{\text{km}}{\text{h}}$ $V_{ave} = \frac{d}{t}$

$t = 3.21 \text{ h}$

$V_{ave} t = d$

$d = ?$

$(70.8 \frac{\text{km}}{\text{h}})(3.21 \text{ h}) = d$

$d = \underline{227 \text{ km}}$
3SD

\Rightarrow The distance was 227 km.

2. $V_{ave} = 0.37 \frac{\text{m}}{\text{s}}$ $V_{ave} = \frac{d}{t}$

$d = 4.0 \text{ m}$

$t = ?$



$t = \frac{d}{V_{ave}}$

$t = \frac{4.0 \text{ m}}{0.37 \frac{\text{m}}{\text{s}}}$

$t = 11 \text{ s}$

$11 \text{ s} \times \frac{1 \text{ min}}{60 \cancel{\text{ s}}} = 0.18 \text{ min}$

ws.] The time is 0.18 min

Understanding Concepts: Page 365, #1-6

Chapter 9 - Review

Understanding Concepts: Page 376 -> #1, 3

Applying Inquiry Skills: Page 376 -> #7-10, 12 (a, b)

Making Connections: Page 377 -> #14

