

Lesson 3 Homework Practice

Convert Unit Rates

Convert each rate. Round to the nearest hundredth if necessary. **You must complete numbers 1 and 7, and then 3 others of your choice. All others are extra credit.**

**For additional help at home please go to: <http://mrlator.weebly.com/homework7.html>

1. $345 \text{ ft/min} = \underline{\hspace{2cm}} \text{ ft/h}$

2. $64 \text{ mi/h} \approx \underline{\hspace{2cm}} \text{ ft/s}$

3. $17 \text{ cm/min} = \underline{\hspace{2cm}} \text{ m/h}$

4. $815 \text{ gal/h} \approx \underline{\hspace{2cm}} \text{ qt/sec}$

5. $39 \text{ ft/min} \approx \underline{\hspace{2cm}} \text{ yd/s}$

6. $6,000 \text{ lb/day} = \underline{\hspace{2cm}} \text{ T/wk}$

7. $110 \text{ mi/h} = \underline{\hspace{2cm}} \text{ mi/day}$

8. $2 \text{ lb/wk} \approx \underline{\hspace{2cm}} \text{ oz/day}$

9. $90 \text{ ft/h} \approx$ _____ mi/min

10. $44 \text{ mi/h} \approx$ _____ yd/min

Use the table below showing the speed in miles per hour of several bikers.

| Speeds While Biking | |
|---------------------|------------------------|
| Name | Speed (miles per hour) |
| Zoe | 24 |
| Jermaine | 22.5 |
| Ragsak | 31.8 |
| Yuzo | 27 |

13. What is Ragsak's speed in feet per second? Round to the nearest tenth.

14. What is Zoe's speed in yards per minute?

15. How many feet per minute faster is Yuzo's speed than Jermaine's speed?