

Name _____
Mr. Schlansky

Date _____
Geometry

Conversions

Convert the following units and round to the nearest tenth if necessary

1. 750 meter to kilometer

2. 1.2 kilometer to meter

3. 220 centimeter to meter

4. 3.45 meter to centimeter

5. 45 minutes to hours

6. 1.2 hours to minutes

7. 1.6 inches to centimeter

8. 3.2 centimeter to inches

9. 6.2 miles to feet

10. 5000 feet to miles

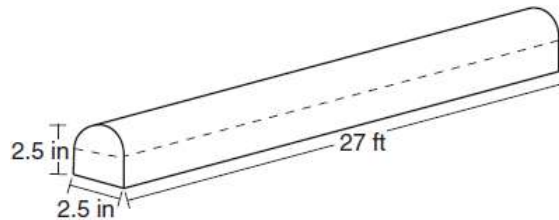
11. 4 gallons to kiloliters

12. 2.4 feet to centimeters

13. What is the volume, to the *nearest cubic foot*, of a rectangular prism that is 2.4 feet high, 3.2 feet wide, and 9 inches high?

14. What is the volume of a cylinder, to the *nearest tenth of a cubic meter*, whose radius is 1200 meters and height is 0.8 kilometers?

15. A fabricator is hired to make a 27-foot-long solid metal railing for the stairs at the local library. The railing is modeled by the diagram below. The railing is 2.5 inches high and 2.5 inches wide and is comprised of a rectangular prism and a half-cylinder.



How much metal, to the *nearest cubic inch*, will the railing contain?

- | | |
|--------|---------|
| 1) 151 | 3) 1808 |
| 2) 795 | 4) 2025 |

16. From a point on the ground one-half mile from the base of a historic monument, the angle of elevation to its top is 11.87° . To the *nearest foot*, what is the height of the monument?

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|--------|---------|
| 1) 543 | 3) 1086 |
| 2) 555 | 4) 1110 |