

REVIEW: Converting Metric Units

Name _____

Key Concept and Vocabulary

Length

$1 \text{ cm} = 10 \text{ mm}$

$1 \text{ m} = 100 \text{ cm}$

$1 \text{ km} = 1,000 \text{ m}$

Weight (Mass)

$1 \text{ g} = 1,000 \text{ mg}$

$1 \text{ kg} = 1,000 \text{ g}$

Volume

$1 \text{ L} = 1,000 \text{ mL}$

$1 \text{ kL} = 1,000 \text{ L}$

$1 \text{ cm}^3 = 1 \text{ mL}$

$1 \text{ L} = 1,000 \text{ cm}^3$

$1 \text{ m}^3 = 1,000 \text{ L}$

$1 \text{ m}^3 = 1,000,000 \text{ cm}^3$



Visual Model



$1 \text{ L} = 1,000 \text{ mL}$

Skill Examples

1. Convert 3 meters to centimeters.

$3 \times 100 = 300$

❖ There are 300 centimeters in 3 meters.

2. Convert 1,500 milliliters to liters.

$1,500 \div 1,000 = 1.5$

❖ There are 1.5 liters in 1,500 milliliters.

Application Example

3. A runner is running in a 5-kilometer race. How many meters long is the race?

$5 \times 1,000 = 5,000$

❖ The race is 5,000 meters long.



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Check your answers at BigIdeasMath.com.

Complete the unit conversion.

4. $2 \text{ km} = \underline{2,000} \text{ m}$

5. $30 \text{ cm} = \underline{300} \text{ mm}$

6. $6 \text{ m} = \underline{600} \text{ cm}$

7. $0.5 \text{ m} = \underline{50} \text{ cm}$

8. $9 \text{ m} = \underline{9,000} \text{ mm}$

9. $7 \text{ kg} = \underline{7,000} \text{ g}$

10. $1.5 \text{ kg} = \underline{1,500} \text{ g}$

11. $2 \text{ L} = \underline{2,000} \text{ mL}$

12. $3.5 \text{ L} = \underline{3,500} \text{ mL}$

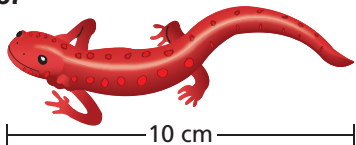
13. $300 \text{ cm} = \underline{3} \text{ m}$

14. $4,000 \text{ mL} = \underline{4} \text{ L}$

15. $1,250 \text{ g} = \underline{1.25} \text{ kg}$

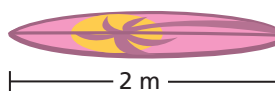
Complete the unit conversion.

16.



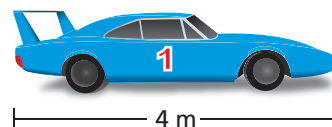
Salamander length = $\underline{100} \text{ mm}$

17.



Surfboard length = $\underline{200} \text{ cm}$

18.



Car length = $\underline{4,000} \text{ mm}$

19. **SPEED** An object moves 90 kilometers per hour. What is the speed of the object in meters per hour?

90,000 meters per hour