REVIEW: Converting Metric Units

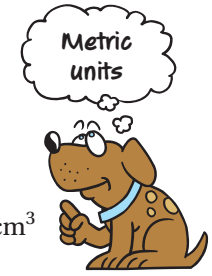
Name _____

Key Concept and Vocabulary

Length
1 cm = 10 mm
1 m = 100 cm
1 km = 1,000 m

Weight (Mass)
1 g = 1,000 mg
1 kg = 1,000 g

Volume
1 L = 1,000 mL
1 kL = 1,000 L
1 cm^3 = 1 mL
1 L = 1,000 cm^3
1 m^3 = 1,000 L
1 m^3 = 1,000,000 cm^3



Visual Model

1 L = 1,000 mL

Skill Examples

1. Convert 3 meters to centimeters.

3 × 100 = 300

∴ There are 300 centimeters in 3 meters.

2. Convert 1,500 milliliters to liters.

1,500 ÷ 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 × 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 km = _____ m

5. 30 cm = _____ mm

6. 6 m = _____ cm

7. 0.5 m = _____ cm

8. 9 m = _____ mm

9. 7 kg = _____ g

10. 1.5 kg = _____ g

11. 2 L = _____ mL

12. 3.5 L = _____ mL

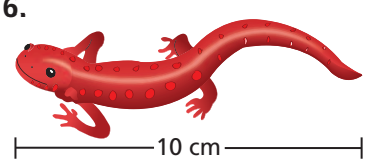
13. 300 cm = _____ m

14. 4,000 mL = _____ L

15. 1,250 g = _____ kg

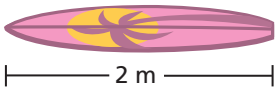
Complete the unit conversion.

16.



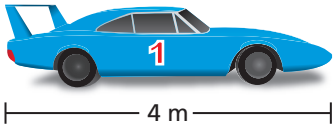
Salamander length = _____ mm

17.



Surfboard length = _____ cm

18.



Car length = _____ mm

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

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