

LESSON
2 **Measurement and Geometry**
Practice C: Converting Metric Units

Convert.

1. 7.509 cm = _____ mm

2. 78.6 km = _____ cm

3. 102.55 kg = _____ g

4. 98.6 L = _____ mL

5. 4.9 m = _____ mm

6. $1.75 \cdot 10^4$ cm = _____ m

7. $0.69 \cdot 10^5$ g = _____ kg

8. $6.4 \cdot 10^3$ mL = _____ L

9. $3 \text{ km} \cdot \frac{1,000 \text{ m}}{\text{km}} =$ _____ m

10. $1.8 \text{ L} \cdot \frac{1,000 \text{ mL}}{\text{L}} =$ _____ mL

11. $2.4 \text{ kg} \cdot \frac{1,000 \text{ g}}{\text{kg}} =$ _____ g

12. $5.7 \text{ m} \cdot \frac{100}{\text{m}} \text{ cm} =$ _____ cm

Compare. Use <, >, or =.

13. 350 millimeters ___ 3.5 centimeters

14. 0.2 liter ___ 200 milliliters

15. 0.83 kilograms ___ 830 grams

16. 6.1 meters ___ 61,000 centimeters

17. Anne says that 0.2 cm is the same as 2 mm. Do you agree? Explain.

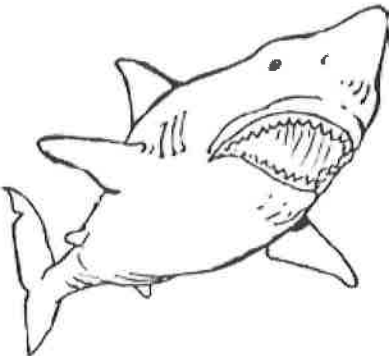
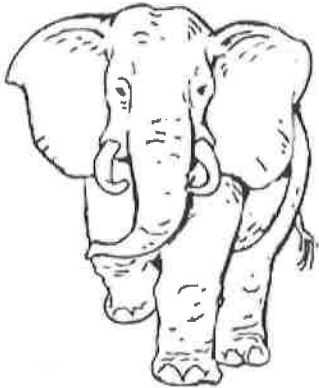
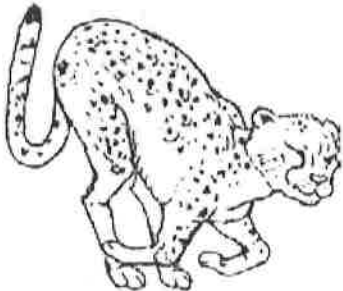
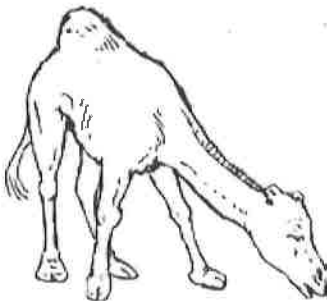
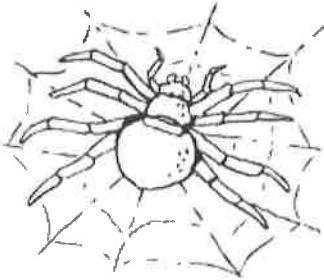

18. Which is a better buy, 200 cm of fabric at \$4.50 or 5 m of fabric at \$25? Explain.

19. Electricity is measured in units called *watts*. A kilowatt is 1,000 watts. The average toaster uses 0.85 kilowatts per year. The average microwave oven uses 750 watts per year. Which appliance uses more electricity annually?

20. A megawatt is 1 million watts. The first and largest tidal power plant opened in France in 1966. It uses the power of ocean tides to create about 544 million kilowatts of power a year! How many megawatts of power is that?

LESSON
2 **Measurement and Geometry**
Challenge: Metric Animals

Write the most appropriate metric units for the measurements below.

		
<p>The teeth of a great white shark are about 12 _____, or 120 _____, long. That's probably longer than your hand!</p>	<p>An elephant has a mass of about 5,000 _____, 5,000,000 _____. That's heavier than 5 cars piled on top of one another!</p>	<p>A cheetah can run about 110 _____, or 110,000 _____, per hour. That's faster than most cars driving on the highway!</p>
		
<p>A camel can drink about 225 _____, or 225,000 _____, of water in one hour. That's enough water to fill a bathtub!</p>	<p>The midget spider weaves the tiniest web. At only 10 _____, or 1 _____, long, its web is smaller than your thumbnail!</p>	<p>The pygmy shrew is the smallest animal on Earth. It only has a mass of about 1.5 _____, 0.0015 _____. That's less than the mass of a dime!</p>