## Conversion Challenge

Write the correct abbreviation for each metric unit.

1) Kilogram \_\_\_\_\_

4) Milliliter \_\_\_\_

2) Meter \_\_\_\_\_

5) Millimeter \_\_\_\_

3) Gram \_\_\_\_

6) Liter \_\_\_\_

- 7) Kilometer \_\_\_\_
- 8) Centimeter \_\_\_\_
- 9) Milligram

Try these conversions, using the ladder method.

- 1) 2000 mg = \_\_\_\_\_ g
- 6) 5 L = \_\_\_\_ mL
- 11) 16 cm = \_\_\_\_ mm

- 2) 104 km = \_\_\_\_ m
- 7) 198 g = \_\_\_\_\_kg
- 12) 2500 m = \_\_\_\_ km

- 3) 480 cm = \_\_\_\_ m
- 8) 75 mL = \_\_\_\_\_ L
- 13) 65 g = \_\_\_\_ mg

4) 5.6 kg = \_\_\_\_ g

- 9) 50 cm = \_\_\_\_ m
- 14) 6.3 cm = \_\_\_\_ mm

- 5) 8 mm = \_\_\_\_ cm
- 10) 5.6 m = \_\_\_\_ cm
- 15) 120 mg = \_\_\_\_ g

Compare using <, >, or =.

- 16) 63 cm ( ) 6 m
- 17) 5 g ( ) 508 mg
- 18) 1,500 mL () 1.5 L

- 19) 536 cm ( ) 53.6 dm
- 20) 43 mg (

5 g

21) 3.6 m 36 cm

## Metric Conversion (A

Convert each measurement to the unit indicated.

0.1 km to cm

1 km to m

7.3 cm to mm

855.2 km to cm

413.7 cm to km

4246.6 m to km

3560.8 m to cm

9 mm to km

1882.7 mm to cm

4814.8 cm to km

26.7 m to mm

5.3 cm to mm

15.5 cm to km

4.3 mm to cm

9433.9 km to cm

0.6 m to mm

1.6 m to km

8.8 mm to m

6.1 m to km

0.4 mm to m

8856.9 mm to m

9691.8 m to cm

8.9 cm to m

97.8 m to cm

## **Beyond the Basic Ladder**

ad		
7	•	ò
given.		qn
-		lete 1
		e t
		he
		these n
		m
		tr
		lete these metric
		g
		onversions
		rsi
		IOI.
		ı Sı
		ısi.
		gn
		${ m n}{f g}$ the full metric ladder hand
		e f
		Ħ
		etr
		ic]
		lad
		de
		rh
		an
		do
		ut
		yo
		u k
		Complete these metric conversions using the full metric ladder handout you have been
		e l
		эеє
		ň

22.	12.55km =	nm
23.	23. 250,000µm =	km
24.	24. 250 GL =	mL
25.	25. 5,000,000,000pm =	m

Use your conversion knowledge to answer the following questions. SHOW YOUR WORK PLEASE!

26. One cereal bar has a mass of 37g. What is the mass of 6 cereal bars. Is that more or less than 1 kg? Explain your answer

trips must she make? 27. Wanda needs to move 110 kg of rocks. She can carry 10hg each trip. How many

altitude in kilometers? 28. Weather satellites orbit the Earth at an altitude of 1,400,000 meters. What is that

- 29. Circle the more reasonable unit of measure:
- a) length of an ant

5 mm or 5 cm

 $5 \mathrm{m}$  or  $50 \mathrm{m}$ 

b) length of an automobile c) distance from NY to LA

450km or 4,500km

your answer. 30. Will a tablecloth that is 155 cm long cover a table that is 1.6 meters long? Explain