

Name: _____



PRACTICE



TUTORIAL

5-9 Additional Practice

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In 1–12, complete each conversion.

1. 45 g = mg

2. 3,450 mL = L

3. 6.5 m = mm

4. 1.68 L = mL

5. 28 cm = mm

6. 7,658 g = kg

7. 600 cm = m

8. 5,000 dg = g

9. 5.1 km = m

10. 0.178 L = mL

11. 4,300 m = km

12. 2.7 m = cm

13. Use an equivalent rate to convert 24 centiliters to liters.

14. Use dimensional analysis to convert 0.33 kilometer to meters.

In 15–17, use the table, which shows the amounts of three items that Nobu bought at a farmer's market.

15. What is the mass of the cantaloupe in grams?

Item	Amount
Green Pepper	400 g
Cantaloupe	3 kg
Tomato	630 g

16. What is the total mass in kilograms of all the items that Nobu bought?

17. Anya bought some tomatoes with a mass of 1.2 kilograms. How much heavier are Anya's tomatoes than Nobu's tomato?

In 18–20, use the table. *The Persistence of Memory*, by Salvador Dali, and *Water Lilies*, by Claude Monet, are two famous paintings.

18. **Be Precise** What are the length and height of *The Persistence of Memory* in centimeters?

Painting Title	Length (meters)	Height (meters)
<i>The Persistence of Memory</i>	0.33	0.241
<i>Water Lilies</i>	5.99	1.995

19. What are the length and height of *Water Lilies* in millimeters?

20. The painting *Starry Night* by Vincent Van Gogh is 92.1 centimeters long. Which painting is longer, *Starry Night* or *The Persistence of Memory*? How much longer?

21. **Construct Arguments** A banana has a mass of 122 g. Explain how to find the mass of the banana in milligrams.

22. **Higher Order Thinking** If a car is traveling at a speed of 40 kilometers per hour, what is its approximate rate in meters per minute?

23. A computer disk has a mass of 20 g. How many of these disks would you need to equal a total mass of 1 kg?

24. A chemist needs 2,220 mL of potassium chloride to complete an experiment. She has 2 L. How many more liters does she need?



Assessment Practice

25. Select all the conversions that are equivalent to the length of a 725-meter suspension bridge.

- 725,000 mm
- 72,500 cm
- 7,250 cm
- 7.25 km
- 0.725 km

26. Select all the conversions that are equivalent to the mass of a 6.75-kilogram bowling ball.

- 67.5 hg
- 67.5 dag
- 6,750 g
- 67,500 cg
- 6,750,000 mg