

# 8-10 Homework

Name \_\_\_\_\_

Date \_\_\_\_\_

Complete.

- 1 973 mg = 0.973 \_\_\_\_\_
- 2 0.058 g = 58 \_\_\_\_\_
- 3 10.64 kg = \_\_\_\_\_ g
- 4 4.001 kg = \_\_\_\_\_ mg
- 5 29 g = 0.029 \_\_\_\_\_
- 6 7 mg = \_\_\_\_\_ g
- 7 3.7 g = \_\_\_\_\_ mg
- 8 84 g = \_\_\_\_\_ kg

Solve.

- 9 The mass of substances left in a sample after the liquid is evaporated is called the *total dissolved solids*. Kim split up 2 liters of water into three different samples and boiled all the liquid away in each. The masses of solids left in the three samples were 2.025 grams, 457 mg, and 589 mg. Using the table at the right, how should Kim classify the water?
- \_\_\_\_\_

Total Dissolved Solids in 1 Liter of Solution	
fresh	< 1,000 mg
brackish	1,000 to 10,000 mg
saline	> 10,000 mg

- 10 Jamal watched his older brother Robert lift weights. The bar alone had a mass of 20 kg. On the bar he had two 11.4 kg weights, two 4.5 kg weights, and four 450 g weights. What mass was Robert lifting?
- \_\_\_\_\_

- 11 Barry bought 25 kg of fish-flavored cat food and 35 kg of chicken-flavored cat food for the cat rescue center. He is going to divide the cat food into packets of 300 grams. How many packets will he make?
- \_\_\_\_\_

Greyson rides his bike at a constant rate. In 30 minutes, Greyson can bike 7 miles.

- 1 Complete the table to show the distance Greyson can ride in 0, 30, 60, and 90 minutes.

Time (min)	0	30	60	90
Distance (mi)		7		

- 2 Write the ordered  $(x, y)$  pairs the data represent. Then graph the points and extend the line.

(\_\_\_\_, \_\_\_\_) (\_\_\_\_, \_\_\_\_) (\_\_\_\_, \_\_\_\_) (\_\_\_\_, \_\_\_\_)

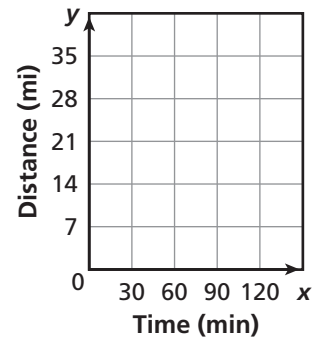
- 3 How far would you expect Greyson to ride in 105 minutes? Explain your answer.

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Biking Distance



Complete the equation.

4  $435 \text{ L} = \underline{\hspace{2cm}} \text{ kL}$

5  $6.71 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

6  $86,300 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

7  $109 \text{ L} = \underline{\hspace{2cm}} \text{ kL}$

8  $5,669 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

9  $30.8 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

10  $9.12 \text{ kL} = 9,120 \underline{\hspace{2cm}}$

11  $9,235 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

- 12 **Stretch Your Thinking** Write three measurements using grams and three measurements using milligrams that total 15.4 grams.

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