

Name: \_\_\_\_\_



PRACTICE



TUTORIAL

## 5-10 Additional Practice

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In 1–9, find the equivalent measure. Round to the nearest tenth.

1. 4 in.  $\approx$   cm

2. 12 gal  $\approx$   L

3. 35 lb  $\approx$   kg

4. 20 km  $\approx$   mi

5. 125 in.  $\approx$   m

6. 18 L  $\approx$   qt

7. 55 oz  $\approx$   g

8. 34 in.  $\approx$   cm

9. 70 mi  $\approx$   km

10. Aidan needs 15 liters of cleaning solution. He can buy a 2-gallon jug (\$4.28), a 3-gallon jug (\$5.92), a 4-gallon jug (\$6.56), or a 7-gallon jug (\$12.98). Which jug should he purchase to get at least 15 liters of cleaning solution and spend the least amount of money?

11. Elise ran 2 miles in 15 minutes. Teagan ran 3 kilometers in 15 minutes. Who ran at a faster rate? Explain.

12. Ryan is running in a 5-kilometer race. How many feet will he run in the race? Use the conversion rates  $5,280 \text{ ft} = 1 \text{ mi}$  and  $1 \text{ mi} \approx 1.61 \text{ km}$ . Round to the nearest hundred feet.

13. Luisa bought 4.4 kilograms of apples. How many ounces of apples did she buy? Use the conversion rates  $1 \text{ kilogram} \approx 2.20 \text{ pounds}$  and  $1 \text{ pound} = 16 \text{ ounces}$ . Round to the nearest ounce.

14. Enzo needs to buy some sand for his sandbox. He can either buy a 10-pound bag of sand for \$18 or a 6-kilogram bag of sand for \$20.

a. Which is a better value? Explain.

b. If Enzo needs 18 pounds of sand, what should he buy so that he spends the least amount of money overall? Explain.



**15. Critique Reasoning** A recipe Carmen is making calls for 4 cups of milk. She has 1 liter of milk. Her sister says she has enough milk. Is her sister correct? Explain.

Units of Capacity Conversion Chart	
1 pt = 2 c	1 gal $\approx$ 3.79 L
1 qt = 2 pt	1 qt $\approx$ 0.95 L
1 gal = 4 qt	

**16.** Which car gets better mileage: a car that gets 23 miles per gallon or a car that gets 45 kilometers per gallon?

**17. Be Precise** Keiko is using metric units of capacity to find an equivalent measure for 3 gallons. She records the liquid volume using milliliters and deciliters. Which unit will give a more precise measure? Explain.

**18. Make Sense and Persevere** A 1-mile race is 5,280 feet long. To the nearest tenth, about how many meters are there in 1 mile? Explain.

**19. Higher Order Thinking** Six juice boxes have a total liquid volume of 48 fluid ounces. There are 8 fluid ounces in 1 cup. There are about 4.23 cups in 1 liter. About how many liters are there in 48 fluid ounces? Round your answer to the nearest tenth.

## Assessment Practice

**20.** A gorilla has a mass of 156 kilograms. Select all the customary measures that are less than 156 kilograms.

- 400 lb
- 350 lb
- 300 lb
- 250 lb
- 200 lb

**21.** The public library has a mural that measures 15 meters wide. Select all the customary measures that are greater than 15 meters.

- 500 in.
- 550 in.
- 600 in.
- 45 ft
- 50 ft

