Name: _____

5-10 Additional Practice

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

1. 4 in. ≈ [____] cm

2. 12 gal ≈ [____] L

3. 35 lb ≈ [____] kg

4. 20 km ≈ [____] mi

5. 125 in. ≈ [____] m

6. 18 L ≈ [____] qt

7. 55 oz ≈ [____] g

8. 34 in. ≈ [____] cm

9. 70 mi ≈ [____] 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 ft = 1 mi and 1 mi ≈ 1.61 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 kilogram ≈ 2.20 pounds and 1 pound = 16 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.

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