

Chapter Review

1. The library is 5 miles from the post office. How many yards is the library from the post office?

_____ yards

2. Brody made 3 gallons of juice for a picnic. He said that he made $\frac{3}{4}$ quart of juice. Explain Brody's mistake.

3. The Drama Club is showing a video of their recent play. The first act is 65 minutes long. Intermission is 20 minutes long, and the second act continues for another hour.

Part A

How long is the video in minutes?

_____ minutes

Part B

How long is the video in seconds?

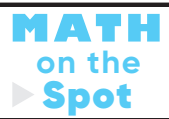
_____ seconds

Part C

How long is the video in hours and minutes?

_____ hours and _____ minutes

Problem Solving • Applications



10. At a local animal shelter there are 12 small-sized dogs and 5 medium-sized dogs. Every day, the small-sized dogs are each given about $1\frac{1}{2}$ cups of water and the medium dogs are given about 8 cups of water. How many quarts of water do the dogs at the shelter drink each day?



a. What are you asked to find? _____

b. What information will you use? _____

c. What conversion will you need to do to solve the problem?

d. Show the steps you use to solve the problem.

e. Complete the sentences. The small-sized dogs drink a total of _____ cups of water each day.

The medium-sized dogs drink a total of _____ cups of water each day.

The shelter serves _____ cups,

or _____ quarts, of water each day.

11. After each track practice, Hanna jogs 5 laps of 400 meters. If she continues this routine, how many practices will it take her to jog 50 kilometers?

_____ practices

4. Fergus bought 4 liters of liquid laundry detergent, 3,250 milliliters of fabric softener, and 2.5 liters of bleach. For 4a–4e, select True or False for each statement.
- 4a. Fergus bought 75 milliliters more fabric softener than bleach. ☐ True ☐ False
- 4b. Fergus bought 1.75 liters more laundry detergent than bleach. ☐ True ☐ False
- 4c. Fergus bought 750 milliliters more fabric softener than bleach. ☐ True ☐ False
- 4d. Fergus bought 150 milliliters more laundry detergent than bleach. ☐ True ☐ False
- 4e. Fergus bought 0.75 liters more laundry detergent than fabric softener. ☐ True ☐ False

5. Efrem sprinted for 100 meters. How many kilometers did he sprint?

_____ kilometer

6. Amar and his friends went to a movie that was 1 hour 35 minutes long.

Part A

How long was the movie in seconds?

_____ seconds

Part B

Amar got home 45 minutes after the movie ended. How many minutes after the start of the movie did he get home? Explain.

_____ minutes

Name _____

7. Select the objects that hold the same amount of liquid as a 96-fluid-ounce jug. Mark all that apply.
- ☐ (A) three 1-quart bottles
 - ☐ (B) two 1-quart bottles
 - ☐ (C) two 1-quart bottles and two 1-pint bottles
 - ☐ (D) one 1-quart bottle and eight 8-fluid ounce glasses
 - ☐ (E) two 8-fluid ounce glasses and two 1-pint bottles
8. A tank holds 3,000 liters of water. How many kiloliters of water does it hold?
- _____ kiloliters
9. Ricardo walks every day for exercise at a rate of 1 kilometer every 12 minutes.

Part A

At this rate, how many meters can Ricardo walk in 1 hour? Explain how you found your answer.

Part B

Suppose Ricardo walks 1 kilometer every 10 minutes. How many meters further can he walk in 1 hour at this new rate? Explain how you found your answer.

10. Davina filled 32 jars with paint. If each jar holds 1 pint of paint, how many gallons of paint did Davina use?
- _____ gallons

11. Griffin's driveway is 36 feet long. Choose the word and number to complete the sentence correctly.

To convert 36 feet to yards, _____ 36 by _____.

add	3
subtract	12
multiply	1,760
divide	5,280

12. Guillermo went to the store to buy four liters of punch. The punch comes in 350-milliliter containers. How many 350-milliliter containers does Guillermo need to buy?
- _____ containers

13. Chandler has 824 millimeters of fabric. How many centimeters of fabric does Chandler have? Use the numbers and symbols on the tiles to write an equation to show the conversion.

824	8.24	82.4	0.824
×	÷	=	
10	100	1,000	

Chandler has _____ centimeters of fabric.

14. Glenn needs to cut pieces of ribbon that are each 1 meter long to make ribbon key chains. If he has 3 pieces of ribbon that are each 1 dekameter long, how many 1-meter pieces of ribbon can he cut?
- _____ pieces

Name _____

15. A large pot holds 8 quarts of spaghetti sauce. Eleanor has 1-pint containers of spaghetti sauce. Complete the table to help you find the number of 1-pint containers of spaghetti sauce Eleanor will need to fill the pot.

Quarts	2	4	6	8
Pints				

Eleanor will need 1-pint containers to fill the pot.

16. Finley bought 48 yards of fabric to make curtains. How many inches of fabric did Finley buy?

_____ inches

17. Hera is having a party. She wants to make punch. The recipe for punch uses 3 pints of pineapple juice, 5 cups of orange juice, $\frac{1}{4}$ gallon of lemonade, and 1 quart of apricot nectar.

Part A

Hera says her recipe will make 20 cups of punch. Is Hera correct? Explain your answer.

Part B

Hera decides to pour her punch into 1-quart containers to fit into her refrigerator until the party starts. She has four 1-quart containers. Will all of her punch fit into the containers? Explain.

18. Sam is practicing long track speed skating at an ice skating rink. The distance around the rink is 250 yards. Sam has skated around the rink 6 times so far. How many more yards does Sam need to skate around the rink to complete 3 miles?

_____ yards

19. Maria spent 15 days traveling in South America. How many hours did she spend traveling in South America?

_____ hours

20. To make a pompom, Jariah is cutting 6-inch pieces of yarn. If she has a piece of yarn that is $24\frac{1}{2}$ feet long, how many pieces can she cut?

_____ pieces

21. A plumber has a piece of pipe that is 2 meters long. He needs to cut it into sections that are 10 centimeters long. How many sections will he be able to cut? Show your work. Explain how you found your answer.

22. For problems 22a–22d, select True or False for each statement.

22a. 400 millimeters = 4 kilometers ☐ True ☐ False

22b. 3 weeks = 21 days ☐ True ☐ False

22c. 5 liters = 500 centiliters ☐ True ☐ False

22d. 24 yards = 8 feet ☐ True ☐ False