

Chapter 12 Review/Test



Personal Math Trainer

Online Assessment
and Intervention

1. Mrs. Miller wants to estimate the width of the steps in front of her house. Select the best benchmark for her to use.

- A her fingertip
- B the thickness of a dime
- C the width of a license plate
- D how far she can walk in 20 minutes

2. **GO DEEPER** Franco played computer chess for 3 hours. Lian played computer chess for 150 minutes. Compare the times spent playing computer chess. Complete the sentence.

_____ played for _____ longer than _____.

3. Select the measures that are equal. Mark all that apply.

- | | |
|----------------------------------|------------------------------------|
| <input type="radio"/> A 6 feet | <input type="radio"/> D 600 inches |
| <input type="radio"/> B 15 yards | <input type="radio"/> E 12 feet |
| <input type="radio"/> C 45 feet | <input type="radio"/> F 540 inches |

4. Jackie made 6 quarts of lemonade. Jackie says she made 3 pints of lemonade. Explain Jackie's error. Then find the correct number of pints of lemonade.

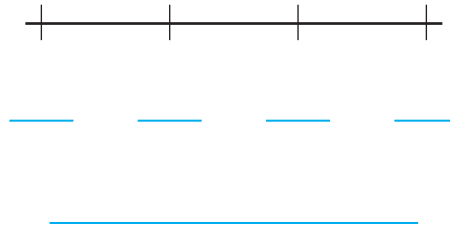
5. Josh practices gymnastics each day after school. The data shows the lengths of time Josh practiced gymnastics for 2 weeks.

Time Practicing Gymnastics (in hours)
$\frac{1}{4}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{3}{4}$, $\frac{1}{2}$, 1, 1, 1, $\frac{3}{4}$, 1

Part A

Make a tally table and line plot to show the data.

Time Practicing Gymnastics	
Time (in hours)	Tally



Part B

Explain how you used the tally table to label the numbers and plot the Xs.

Part C

What is the difference between the longest time and shortest time Josh spent practicing gymnastics?

_____ hour

6. Select the correct word to complete the sentence.

Juan brings a water bottle with him to soccer practice.

A full water bottle holds _____ of water.

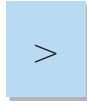
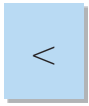
- 1 liter

10 milliliters

1 meter

Name _____

7. Write the symbol that compares the weights correctly.



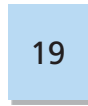
128 ounces _____ 8 pounds

8,000 pounds _____ 3 tons

8. Dwayne bought 5 yards of wrapping paper. How many inches of wrapping paper did he buy?

_____ inches

9. A sack of potatoes weighs 14 pounds 9 ounces. After Wendy makes potato salad for a picnic, the sack weighs 9 pounds 14 ounces. What is the weight of the potatoes Wendy used for the potato salad? Write the numbers to show the correct subtraction.



14 pounds
- 9 pounds



9 ounces
14 ounces



10. Sabita made this table to relate two customary units of liquid volume.

Part A

List the number pairs for the table. Then describe the relationship between the numbers in each pair.

_____	_____
1	2
2	4
3	6
4	8
5	10

Part B

Label the columns of the table. Explain your answer.



11. **THINK SMARTER +** The table shows the distances some students swam in miles. Complete the line plot to show the data.

Distance Students Swam(in miles)										
$\frac{1}{8}$	$\frac{2}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{2}{8}$	$\frac{4}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{4}{8}$



What is the difference between the longest distance and the shortest distance the students swam?

 mile

12. An elephant living in a wildlife park weighs 4 tons. How many pounds does the elephant weigh?
_____ pounds
13. Katia bought two melons. She says the difference in mass between the melons is 5,000 grams. Which two melons that did Katia buy?
- (A) watermelon: 8 kilograms
 - (B) cantaloupe: 5 kilograms
 - (C) honeydew: 3 kilograms
 - (D) casaba melon: 2 kilograms
 - (E) crenshaw melon: 1 kilogram
14. Write the equivalent measurements in each column.

3,000 millimeters	300 centimeters	30 centimeters
$\frac{35}{100}$ meter	0.300 meter	0.35 meter
$\frac{300}{1,000}$ meter	350 millimeters	30 decimeters

3 meters

35 centimeters

300 millimeters

Name _____

15. Cheryl is making a mixed fruit drink for a party. She mixes 7 pints each of apple juice and cranberry juice. How many fluid ounces of mixed fruit drink does Cheryl make?

_____ fluid ounces

16. Hamid's soccer game will start at 11:00 A.M., but the players must arrive at the field three-quarters of an hour early to warm up. The game must end by 1:15 P.M.

Part A

Hamid says he has to be at the field at 9:45 A.M. is Hamid correct? Explain your answer.

Part B

The park closes at 6:30 P.M. There is a 15-minute break between each game played at the park, and each game takes the same amount of time as Hamid's soccer game. How many more games can be played before the park closes? Explain your answer.

17. For numbers 17a–17e, select Yes or No to tell whether the measurements are equivalent.

- | | | | |
|------|--------------------------------|---------------------------|--------------------------|
| 17a. | 7,000 grams and 7 kilograms | <input type="radio"/> Yes | <input type="radio"/> No |
| 17b. | 200 milliliters and 2 liters | <input type="radio"/> Yes | <input type="radio"/> No |
| 17c. | 6 grams and 6,000 kilograms | <input type="radio"/> Yes | <input type="radio"/> No |
| 17d. | 5 liters and 5,000 milliliters | <input type="radio"/> Yes | <input type="radio"/> No |
| 17e. | 2 milliliters and 2,000 liters | <input type="radio"/> Yes | <input type="radio"/> No |

18. Draw lines to match equivalent time intervals.

$\frac{1}{2}$ hour 2 hours 3 hours 8 hours 72 hours

● ● ● ● ●

● ● ● ● ●

3 days 180 minutes 1,800 seconds 480 minutes 7,200 seconds

19. Anya arrived at the library on Saturday morning at 11:10 A.M. She left the library 1 hour 20 minutes later. Draw a time line to show the end time.



Anya left the library at _____ P.M.

20. The tables show patterns for some units of measurement. Write the correct labels in each table.

Pints	Days	Feet	Cups	Week	Yards	Inches	Quarts
-------	------	------	------	------	-------	--------	--------

1	3	1	7
2	6	2	14
3	9	3	21
4	12	4	28

1	4
2	8
3	12
4	16

21. An Olympic swimming pool is 25 meters wide. How many decimeters wide is an Olympic swimming pool?

_____ decimeters wide

22. Frankie is practicing for a 5-kilometer race. His normal time is 31 minutes 21 seconds. Yesterday it took him only 29 minutes 38 seconds.

How much faster was Frankie yesterday than his normal time?
