

Name \_\_\_\_\_

1. Mrs. DeMarco wants to estimate the height of her garage door. Select the best benchmark for her to use.

- (A) the width of a paperclip
- (B) the length of a baseball bat
- (C) the height of a license plate
- (D) how far she can walk in 20 minutes

2. Fred has been taking guitar lessons for 100 weeks. Nancy has been taking guitar lessons for 3 years. Compare the times spent taking guitar lessons. Complete the sentence.

\_\_\_\_\_ has been taking lessons for \_\_\_\_\_ longer than \_\_\_\_\_.

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

- (A) 12 feet
- (B) 10 yards
- (C) 30 feet
- (D) 120 inches
- (E) 36 feet
- (F) 360 inches

4. Micki bought 4 gallons of apple cider. Micki says she bought 1 quart of apple cider. Explain Micki's error. Then find the correct number of quarts of apple cider.



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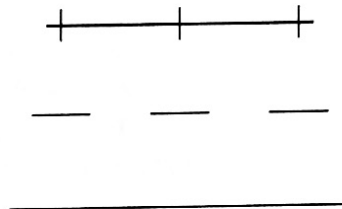
5. Leah has cheerleading practice each day after school. The data shows the lengths of time Leah had practice for 2 weeks.

Time at Cheerleading Practice (in hours)
$\frac{1}{3}$ , $\frac{1}{3}$ , $\frac{2}{3}$ , $\frac{2}{3}$ , $\frac{2}{3}$
1, 1, 1, $\frac{1}{3}$ , 1

**Part A**

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

Time at Cheerleading Practice	
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 Leah spent at cheerleading practice?

\_\_\_\_\_ hour

6. Select the correct word to complete the sentence.

Theo needs a drop of food coloring for a recipe.

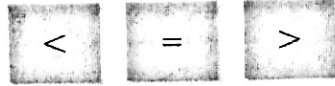
A drop of food coloring is about

- 1 liter
  - 1 milliliter
  - 1 meter
  - 1 millimeter



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7. Write the symbol that compares the weights correctly.



20 ounces \_\_\_\_\_ 10 pounds      8,000 pounds \_\_\_\_\_ 4 tons

8. Shirlee bought 2 yards of fabric. She will use it to make new pillow covers. How many inches of fabric did she buy?

\_\_\_\_\_ inches

9. A large bag of rice weighs 12 pounds 4 ounces. After Malcolm uses some rice in a casserole, the bag weighs 8 pounds 11 ounces. What is the weight of the rice Malcolm used in the casserole? Write the numbers to show the correct subtraction.



$$\begin{array}{r} \square \quad \square \\ 12 \text{ pounds} \quad 4 \text{ ounces} \\ - 8 \text{ pounds} \quad 11 \text{ ounces} \\ \hline \square \text{ pounds} \quad \square \text{ ounces} \end{array}$$

10. Rachel made this table to relate two units of time.

**Part A**

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

1	52
2	104
3	156
4	208

**Part B**

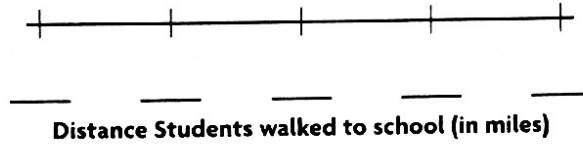
Label the columns of the table. Explain your answer.

**GO ON**

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11. The table shows the distances some students walked to school. Complete the line plot to show the data.

Distance Students walked to school (in miles)					
$\frac{1}{5}$	$\frac{2}{5}$	$\frac{3}{5}$	$\frac{3}{5}$	$\frac{5}{5}$	$\frac{3}{5}$
$\frac{2}{5}$	$\frac{4}{5}$	$\frac{3}{5}$	$\frac{1}{5}$	$\frac{4}{5}$	$\frac{4}{5}$



How many students walk less than 1 mile to school?

\_\_\_\_\_ students

12. An ocean aquarium is home to a gray whale that weighs 35 tons. How many pounds does the gray whale weigh?

\_\_\_\_\_ pounds

13. Lauren bought two items to make dinner. She says the difference in mass between the items she bought is 4,000 grams. Which two items did Lauren buy?

- (A) turkey: 6 kilograms                      (D) bag of sweet potatoes: 2 kilograms  
 (B) crate of apples: 8 kilograms            (E) bag of stuffing: 1 kilogram  
 (C) bag of ears of corn: 3 kilograms

14. Write the equivalent measurements in each column.

2,000 millimeters	200 centimeters	20 centimeters
$\frac{25}{100}$ meter	0.200 meter	0.25 meter
$\frac{200}{1,000}$ meter	250 millimeters	20 decimeters

2 meters
----------

25 centimeters
----------------

200 millimeters
-----------------

**GO ON** 

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15. Celeste is making lemonade. She mixes 6 pints each of fresh-squeezed lemon juice and water. How many fluid ounces of lemonade does Celeste make?  
\_\_\_\_\_ fluid ounces

16. Paul's skateboarding competition will start at 11:30 A.M., but the competitors must arrive at the skate park three-quarters of an hour early to warm up. The competition must end by 1:30 P.M.

**Part A**

Paul says he has to be at the skate park at 9:30 A.M.  
Is Paul correct? Explain your answer.

**Part B**

The skate park closes at 6:45 P.M. There is a 15-minute break between each round of competitions at the skate park, and each round takes the same amount of time as Paul's round. How many more rounds can there be before the skate park closes? Explain your answer.

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

- |                                     |                           |                          |
|-------------------------------------|---------------------------|--------------------------|
| 17a. 800 milliliters and 8 liters   | <input type="radio"/> Yes | <input type="radio"/> No |
| 17b. 9 grams and 9,000 kilograms    | <input type="radio"/> Yes | <input type="radio"/> No |
| 17c. 5,000 grams and 5 kilograms    | <input type="radio"/> Yes | <input type="radio"/> No |
| 17d. 7 milliliters and 7,000 liters | <input type="radio"/> Yes | <input type="radio"/> No |
| 17e. 3 liters and 3,000 milliliters | <input type="radio"/> Yes | <input type="radio"/> No |



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18. Draw lines to match equivalent time intervals.

$\frac{1}{2}$ day	5 days	6 days	10 days	91 days
•	•	•	•	•
•	•	•	•	•
120 hours	13 weeks	144 hours	720 minutes	240 hours

19. An author signed books at a book store starting at 11:00 A.M. She signed books for 1 hour 25 minutes. Draw a time line to show the end time.



The author stopped signing books at \_\_\_\_\_ P.M.

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

Yards	Days	Inches	Pints	Hours	Feet	Quarts	Weeks
-------	------	--------	-------	-------	------	--------	-------

1	12
2	24
3	36
4	48

1	24
2	48
3	72
4	96

1	2
2	4
3	6
4	8

21. Jakob plays the violin. His bow is 8 decimeters long. How many meters long is Jakob's bow?

\_\_\_\_\_ meters long

22. Kyle is practicing for a 3-mile race. His normal time is 23 minutes 26 seconds. Yesterday it took him only 21 minutes 38 seconds. How much faster was Kyle's time yesterday than his normal time?

