

Grade 3 • Unit 6 Worksheet

Measuring Length, Time, Liquid Volume, and Weight

Name: _____

Date: _____

Part A • Length to the Half and Fourth Inch

1. A worm starts at 0 inches on a ruler and ends at the mark halfway between 3 and 4 inches.

How long is the worm? _____ inches

Write the length two different ways (use halves and fourths):

Way 1: _____ inches (using halves)

Way 2: _____ inches (using fourths)

2. Sara measured a leaf and said it is $2\frac{3}{4}$ inches long. On a ruler with quarter-inch marks, where would the right end of the leaf be?

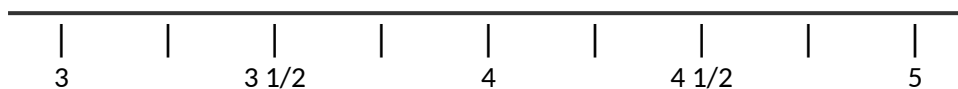
Part B • Line Plots in Fractions of an Inch

3. Pencils were measured (inches): 3, $3\frac{1}{2}$, 4, $3\frac{1}{2}$, $4\frac{1}{4}$, 3, 4, $3\frac{1}{2}$, $4\frac{1}{4}$, $3\frac{1}{2}$.

Show the data on the line plot above (use X's or dots above the right tick).

Which pencil length is MOST common? _____

How many pencils are LESS than 4 inches? _____



Part C • Weight and Liquid Volume

4. Decide whether you'd measure each item in grams (g) or kilograms (kg).

a. a paper clip: _____

b. a watermelon: _____

c. a dictionary: _____

d. a small dog: _____

5. A pitcher holds 2 liters of water. Sara pours out enough to fill a 750-mL bottle. How much is left in the pitcher? (Hint: 1 liter = 1,000 mL.)

Show your work:

Answer: _____ mL (or _____ L)

6. Han says his backpack weighs 5 grams. Is that reasonable? Why or why not?

Part D • Time to the Minute

7. Write each time.

- a. The minute hand is on the 9 and the hour hand is just past 4. Time: _____ : _____
- b. 37 minutes after 8 in the morning. Time: _____ : _____ AM
- c. 3 minutes before 6 in the evening. Time: _____ : _____ PM

8. Maya's swimming lesson starts at 4:15 PM and lasts for 45 minutes. What time does it end?

Show your work:

Answer: _____ : _____ PM

9. Diego got on the bus at 7:48 AM and got off at 8:23 AM. How many minutes was he on the bus?

Show your work:

Answer: _____ minutes

Part E • Thinking Deeply

10. A pumpkin weighs 24 kilograms. A bag of potatoes weighs 6 kilograms. How many times heavier is the pumpkin than the bag?

Show your work:

Answer: _____ times heavier

11. Lin says, "My pencil is 5 inches long." Sara measured the same pencil and said it is $5 \frac{1}{4}$ inches. Could they BOTH be right? Explain.

12. A bottle of juice holds 1 liter. There are 8 students who each want 100 mL of juice. Is there enough? Explain.
