## **Measuring Using Fractional Units** A. Choose the Correct Answer: 1. If a rope is 1 meter long and you cut $\frac{1}{4}$ meter from it, how much is left? a) $\frac{1}{4}$ meter b) $\frac{3}{4}$ meter c) $\frac{1}{2}$ meter d) 1 meter 2. Which of the following measurements represents a fractional unit? a) 5 cm b) 3 m c) $\frac{1}{2}$ m d) 8 mm 3. If a glass holds 1 liter and you drink $\frac{3}{4}$ liter, how much is left? a) $\frac{1}{4}$ liter b) $\frac{3}{4}$ liter d) $\frac{1}{2}$ liter c) 1 liter 4. Which of these is the correct representation of half a kilogram? a) 1 kg b) 100 g c) $\frac{1}{2}$ kg d) 2 kg 5. Which fraction best represents 25 cm out of 1 meter? b) $\frac{1}{4}$ a) $\frac{1}{2}$ c) $\frac{3}{4}$ d) $\frac{1}{2}$ B. Write the Missing Terms to Complete the Sentences: 1. Measuring cups often use to show parts of a whole liter. 2. A ruler can be used to measure \_\_\_\_\_ parts of a centimeter. 3. $\frac{1}{2}$ kg means \_\_\_\_\_ kilogram. 4. When a measurement is not whole, we can use a \_\_\_\_\_ to show part of it. 5. If you cut $\frac{1}{3}$ meter from a 1-meter ribbon, \_\_\_\_\_ meter remains.

## C. Figure out the answers to these questions:

- 1. Draw a measuring scale and show 0,  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , and 1 meter marks.
- 2. Write a real-life situation where you use fractional units while cooking.
- 3. A pencil is  $\frac{3}{4}$  the length of a ruler. If the ruler is 30 cm, how long is the pencil?

- 4. You poured  $\frac{1}{2}$  liter of milk into a jug that can hold 1 liter. How much more milk can it hold?
- 5. A fabric is 5 meters long. You cut  $\frac{2}{5}$  of it. How much fabric is left?
- 6. Explain how a weighing scale can help measure using fractions.
- 7. List three measuring tools that allow fractional measurements.
- 8. Use a number line to represent 0,  $\frac{1}{3}$ ,  $\frac{2}{3}$ , and 1 liter.

## D. Mark each sentence with a True ( $\checkmark$ ) or False (X):

- 1. Fractions are not useful in measuring physical quantities.
- 2.  $\frac{1}{2}$  meter is more than  $\frac{1}{4}$  meter.
- 3.  $\frac{3}{4}$  liter is less than one whole liter.
- 4. Fractions help in measuring exact amounts in real life.
- 5. A full kilogram can never be expressed using fractions.

## E. Challenge yourself with these questions:

- 1. Measure a table with a tape and record its length in fractional meters.
- 2. A pipe is 2 meters long. You cut  $\frac{3}{4}$  meter from it. How much is left?
- 3. Find three examples of items at home that show measurements in fractions.
- 4. Draw a 1-liter bottle and shade  $\frac{1}{2}$ ,  $\frac{1}{4}$ , and  $\frac{3}{4}$  parts in different colors.
- 5. Your water bottle holds 750 ml. If you drink  $\frac{1}{2}$  of it, how much is left?
- 6. **Compare:** Which is greater  $\frac{2}{3}$  liter or  $\frac{3}{4}$  liter? Explain why.
- 7. Create a recipe that includes at least three ingredients with fractional quantities.
- 8. If a clock shows  $\frac{1}{4}$  past 2, what time is it? Explain how it relates to fractions.
- 9. A wooden stick is 1 meter long. Mark and label  $\frac{1}{2}$ ,  $\frac{1}{3}$ , and  $\frac{1}{6}$  on it.
- 10. Explain why measuring with fractions is more accurate than estimating with whole numbers.