

# Measure It Close

Choose the right unit and record the nearest length.

**GRADE 4 • 4.MG.1.b.i**

**4.MG.1.b.i** "Estimate and measure: length of an object to the nearest U.S. Customary unit (12 inch, 14 inch, 18 inch, foot, yard) and nearest metric unit (millimeter, centimeter, or meter);"

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## CHOOSE AND ROUND

Start by estimating a unit that fits the object. Use millimeters for tiny lengths, centimeters for medium lengths, and meters for long lengths. For U.S. Customary measures, use inches or fractional inches for small objects, feet for furniture-sized lengths, and yards for larger lengths, then choose the closest marked amount.

## WORKED EXAMPLE

A poster is 74.6 cm wide. Record its width to the nearest centimeter.

1. The two nearest whole-centimeter marks are 74 cm and 75 cm.
2. 6 cm is closer to 75 cm.
3. Record the measurement in centimeters.

**Answer: 75 cm**

## PRACTICE 6 problems

- 1** A skateboard deck measures  $28 \frac{3}{16}$  inches long. Record its length to the nearest  $\frac{1}{4}$  inch.

**ANSWER** \_\_\_\_\_

- 2** A bookmark measures  $15 \frac{11}{32}$  inches long. Record its length to the nearest  $\frac{1}{8}$  inch.

**ANSWER** \_\_\_\_\_

- 3** A bench measures 53 inches long. Record its length to the nearest foot.

**ANSWER** \_\_\_\_\_

- 4** A classroom banner measures 101 inches long. Record its length to the nearest yard.

**ANSWER** \_\_\_\_\_

- 5** A beetle measures 38.7 mm long. Record its length to the nearest millimeter.

**ANSWER** \_\_\_\_\_

- 6** An aquarium stand measures 2.4 m tall. Record its height to the nearest meter.

**ANSWER** \_\_\_\_\_

## APPLY IT Show your work

- 1** At the makers club, Eli measures a wire as  $19 \frac{9}{16}$  inches long. He must record its length to the nearest  $\frac{1}{2}$  inch. What should he write?

WORK SPACE

ANSWER \_\_\_\_\_

- 2** In the school garden, Sam measures a bean plant as 1.62 meters tall. Record the plant's height to the nearest meter.

WORK SPACE

ANSWER \_\_\_\_\_

## CHALLENGE One step up

### CHALLENGE

A model train measures  $12 \frac{13}{32}$  inches long. Record its length to the nearest  $\frac{1}{8}$  inch and to the nearest  $\frac{1}{4}$  inch. Explain why the two recordings are different.

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## PART 1 • PRACTICE

| # | PROBLEM                                                                                                        | ANSWER                                    |
|---|----------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1 | A skateboard deck measures $28 \frac{3}{16}$ inches long. Record its length to the nearest $\frac{1}{4}$ inch. | <b>28 <math>\frac{1}{4}</math> inches</b> |
| 2 | A bookmark measures $15 \frac{11}{32}$ inches long. Record its length to the nearest $\frac{1}{8}$ inch.       | <b>15 <math>\frac{3}{8}</math> inches</b> |
| 3 | A bench measures 53 inches long. Record its length to the nearest foot.                                        | <b>4 feet</b>                             |
| 4 | A classroom banner measures 101 inches long. Record its length to the nearest yard.                            | <b>3 yards</b>                            |
| 5 | A beetle measures 38.7 mm long. Record its length to the nearest millimeter.                                   | <b>39 mm</b>                              |
| 6 | An aquarium stand measures 2.4 m tall. Record its height to the nearest meter.                                 | <b>2 m</b>                                |

## PART 2 • APPLY IT

- 19  $\frac{1}{2}$  inches** The half-inch marks around  $19 \frac{9}{16}$  inches are  $19 \frac{1}{2}$  inches and 20 inches.  $19 \frac{9}{16}$  inches is closer to  $19 \frac{1}{2}$  inches.
- 2 meters** 1.62 meters is between 1 meter and 2 meters. It is closer to 2 meters.

## CHALLENGE

**Nearest  $\frac{1}{8}$  inch: 12  $\frac{3}{8}$  inches. Nearest  $\frac{1}{4}$  inch: 12  $\frac{1}{2}$  inches. The measurement is closer to 12  $\frac{3}{8}$  when comparing eighths, but it is closer to 12  $\frac{1}{2}$  when comparing the wider quarter-inch marks.**

Accept equivalent fraction forms, such as  $12 \frac{4}{8}$  inches for  $12 \frac{1}{2}$  inches. Accept standard unit abbreviations, including ft., yd., mm, cm, and m.