

Measure It Clearly

Name the attribute, method, and unit.

GRADE 6 • 6.SP.B.5b

CCSS.Math.Content.6.SP.B.5b "Describing the nature of the attribute under investigation, including how it was measured and its units of measurement."

NAME _____

DATE _____

DESCRIBE THE DATA

State what is being measured, how it is measured, and the unit. An attribute can be counted or measured with a tool.

WORKED EXAMPLE

A runner's lap time is 73 seconds.
Describe the attribute.

1. Attribute: lap time.
2. Measure it with a stopwatch.
3. Use seconds as the unit.

Answer: Lap time, measured with a stopwatch, in seconds.

PRACTICE 5 problems

- 1** A class records each student's backpack mass using a scale. Describe the attribute.

ANSWER _____

- 2** Students measure shoe length with a ruler. Describe the attribute.

ANSWER _____

- 3** A survey asks how many texts each student sent yesterday. Describe the attribute.

ANSWER _____

- 4** A student measures water in a bottle with a graduated cylinder. Describe the attribute.

ANSWER _____

- 5** A weather station uses a thermometer. Describe the attribute.

ANSWER _____

APPLY IT Show your work

- 1** A gaming club wants to compare how long members play a game after school. What attribute should they record? Include a method and unit.

WORK SPACE

ANSWER _____

- 2** A music teacher wants to compare the lengths of students' practice sessions. Describe the data to collect.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A club studies how long students take to finish a puzzle. One student records "fast" or "slow." Another records stopwatch times in seconds. Which data better fits the study? Explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A class records each student's backpack mass using a scale. Describe the attribute.	Backpack mass, measured with a scale, in grams.
2	Students measure shoe length with a ruler. Describe the attribute.	Shoe length, measured with a ruler, in centimeters.
3	A survey asks how many texts each student sent yesterday. Describe the attribute.	Number of texts sent, measured by counting, in texts.
4	A student measures water in a bottle with a graduated cylinder. Describe the attribute.	Volume of water, measured with a graduated cylinder, in milliliters.
5	A weather station uses a thermometer. Describe the attribute.	Air temperature, measured with a thermometer, in degrees Celsius.

PART 2 • APPLY IT

1. **Time spent playing, measured with a clock or timer, in minutes.** The attribute is time spent playing. A clock or timer measures time in minutes.
2. **Practice-session length, measured with a clock or timer, in minutes.** The data should be the amount of time in each practice session. Record it using a clock or timer in minutes.

CHALLENGE

Stopwatch times in seconds better fit the study because they measure the attribute, time to finish, with a clear unit. "Fast" and "slow" do not give measured times.

Accept equivalent accurate units when they fit the tool and attribute, such as kilograms for mass or inches for length. Accept wording such as counting messages for the method in a count.