

Scientific Method Part 3: Data Recording Practice (Demo Version)

Read each question carefully.


- 1) Which tool can measure the volume of a water sample?
- A) balance
 - B) ruler
 - C) thermometer
 - D) graduated cylinder
-

Scientific Method Part 3: Data Recording Practice (Demo Version)

"Lorrie's Experiment: Water and Erosion"

Lorrie wanted to know how the force of water affects erosion. She guessed that sprinkling water onto a pile of dirt would cause more erosion than pouring water onto a pile of dirt. For her experiment, she built a pile of dirt 30 centimeters high. She poured one liter of water onto the pile and measured how many centimeters the pile lost in height. Then she sprinkled one liter of water onto the pile and measured it again. She did two trials. The table below shows her data.

Height Lost to Erosion

Water Flow	Height Lost (cm)	
	Trial 1	Trial 2
		
sprinkled	2.5	2.5
poured	4.5	5.0

2)

from "Lorrie's Experiment: Water and Erosion"

Which tool can measure the height of the dirt pile?

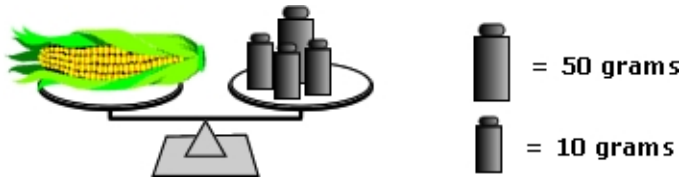
- A) beaker
- B) protactor
- C) balance
- D) ruler

Scientific Method Part 3: Data Recording Practice (Demo Version)

3) Which tool can measure the length of some copper wire?

- A) ruler
 - B) flask
 - C) balance
 - D) thermometer
-

4) What is the mass of the corn?



- A) 20 grams
 - B) 40 grams
 - C) 80 grams
 - D) 120 grams
-

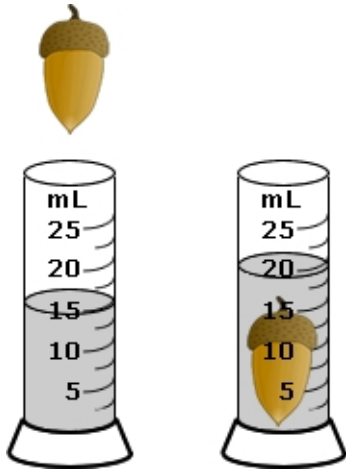
5) Which tool can measure the mass of a tomato?

- A) ruler
 - B) balance
 - C) flask
 - D) thermometer
-

Scientific Method Part 3: Data Recording Practice (Demo Version)

6) 1 milliliter (mL) = 1 cubic centimeter (cc)

What is the volume of the acorn?



- A) 4 cc
- B) 5 cc
- C) 9 cc
- D) 10 cc

Scientific Method Part 3: Data Recording Practice (Demo Version)

7) What is the length of the grasshopper?



- A) 5.2 cm
- B) 5.5 cm
- C) 5.8 cm
- D) 6.4 cm

Scientific Method Part 3: Data Recording Practice (Demo Version)

8) Jackie is testing different objects to see whether they conduct electricity. She needs to record this information.

Which method best records her data?

Copper	yes
Iron	yes
Glass	no
Paper	no
Steel	yes
Plastic	no
Wood	no

#1

Objects Tested as Conductors

Copper	Iron	Glass	Paper	Steel	Plastic	Wood
yes	yes	no	no	no	no	yes

#2

Conduct Electricity	Do Not Conduct Electricity
Copper	Glass
Iron	Paper
Steel	Plastic
	Wood

#3

Objects Tested	
Copper	✓
Iron	✓
Glass	—
Paper	—
Steel	✓
Plastic	—
Wood	—

#4

- A) #1
- B) #2
- C) #3
- D) #4

Scientific Method Part 3: Data Recording Practice (Demo Version)

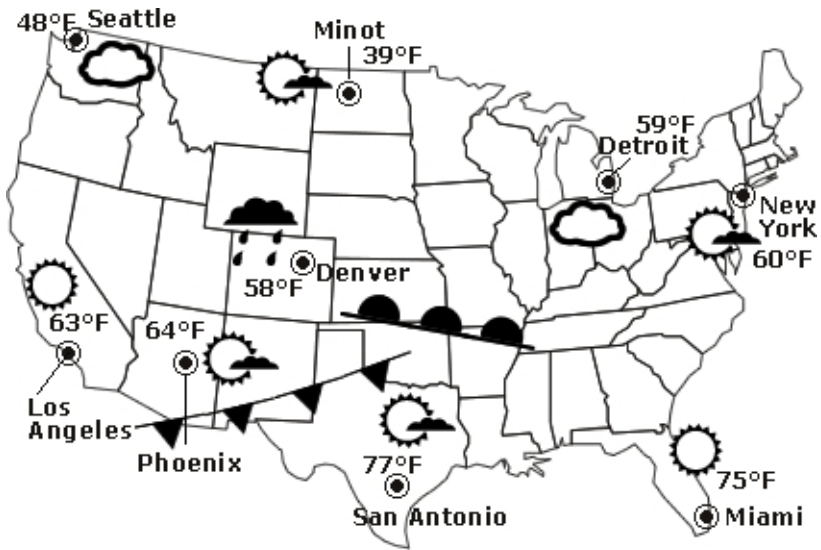
- 9) Mark is testing how to make a circuit with wires, a light bulb, and a battery. Each time he rearranges the parts, he needs to record whether the bulb turns on and make a sketch of how the parts are arranged.








Which format is most useful for recording his data?

- A) a list
 - B) a t-chart
 - C) a table
 - D) a written log
-

Scientific Method Part 3: Data Recording Practice (Demo Version)

"United States Weather Map for April 10th"



	Sunny		Rain
	Partly Sunny		Cold Front
	Cloudy		Warm Front
	Snow		

Scientific Method Part 3: Data Recording Practice (Demo Version)

10) from "United States Weather Map for April 10th"

A student wants to make a table to show the April 10th temperatures for Los Angeles, Denver, San Antonio, and Detroit.

Which table presents the information correctly?

City	Temperature
Los Angeles	64 °F
Denver	48 °F
San Antonio	75 °F
Detroit	60 °F

Table # 1

City	Temperature
Los Angeles	68 °F
Denver	49 °F
San Antonio	72 °F
Detroit	48 °F

Table # 2

City	Temperature
Los Angeles	77 °F
Denver	39 °F
San Antonio	67 °F
Detroit	60 °F

Table # 3

City	Temperature
Los Angeles	63 °F
Denver	58 °F
San Antonio	77 °F
Detroit	59 °F

Table # 4

- A) Table #1
- B) Table #2
- C) Table #3
- D) Table #4

Scientific Method Part 3: Data Recording Practice (Demo Version)

- 11) Simon plans to compare insects to determine whether they have wings or do not have wings. He needs to record his observations.

Which format is most useful for recording his data?

- A) t-chart
 - B) written log
 - C) list
 - D) table
-