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P/S	R/P	Com	Con	Rep	A/Level

Bamboo and the Botanist C

Bamboo and the Botanist

A botanist is a person who studies plants. Mr. Moss is a botanist who is studying a type of bamboo that can grow 1.2 to 3.9 inches every twenty-four hours. Mr. Moss has two pots with a stem of bamboo in each pot. Each stem of bamboo is four feet in height. Mr. Moss wants to measure the height of each stem every twenty-four hours for a week as accurately as he can. Mr. Moss records the growth of each stem. Mr. Moss lists his data:

Stem in pot one—2.878 inches on day one, 1.623 inches on day two, 2.999 inches on day three, 3.319 inches on day four, 1.537 inches on day five, 3.745 inches on day six, 2.153 inches on day seven. Stem in pot two—1.585 inches on day one, 2.307 inches on day two, 1.296 inches on day three, 4.121 inches on day four, 1.742 inches on day five, 2.418 inches on day six, 3.639 inches on day seven.

Mr. Moss organizes his bamboo growth data and then uses the greater than, less than, equal symbols to make four observations. Show how Mr. Moss could represent his data. What four observations could Mr. Moss make about his data using the greater than, less than, equal symbols? Show all your mathematical thinking.

Bamboo Growth Chart

pots

d
a
y
s

	pot 1	pot 2
day 1	+2.878 in	+1.585 in
day 2	+1.623 in	+2.307 in
day 3	+2.999 in	+1.296 in
day 4	+3.319 in	+4.121 in
day 5	+1.537 in	+1.742 in
day 6	+3.745 in	+2.481 in
day 7	+2.153 in	+3.639 in
Final Results :	18.256 inches	17.171 inches

in is a abbreviation for inches

Report

Since 18.256 is greater than 17.171, pot 1 grew more

$$18.256 > 17.171$$

On day 4, pot 1 (3.319 in) grew less than pot 2 (4.121 in)

$$3.319 < 4.121$$

On day 6, pot 1 (3.745 in) grew more than pot 2 (2.481 in)

$$3.745 > 2.481$$

This highest growth for pot 1 (day 6 - 3.745 in) is less than pot 2 (day 4 - 4.121in)

$$3.745 < 4.121$$