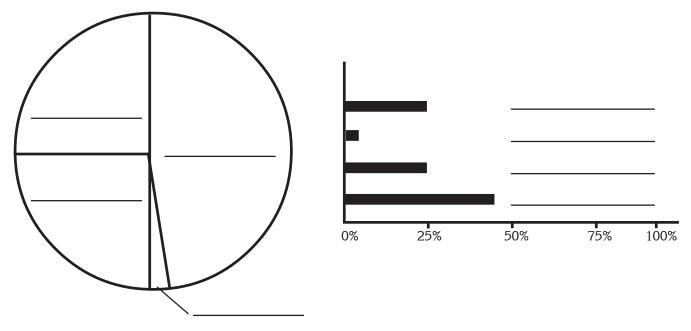
## What I Know About Soils!

Select the best answer for the following questions.

- 1. Which of the following have a connection to the soil?
  - a. plants
  - b. animals
  - c. people
  - d. all of the above
- 2. An *average* soil is 45% mineral matter, 25% air, 25% water, and 5% organic matter. Label the graphs on the lines provided below to show these percentages.



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-	An <i>anerage</i> soll is	50% water and air.	What is the	Other 70% m	ade ot-
•	I MI acciage son is	50% Water and an.	Wildt 15 tilt	Othici DO/0 III	uuc oi.

	and	

- 4. Match the letter to the correct profile description:
  - a. topsoil \_\_\_\_ middle layer where some animals make their homesb. subsoil \_\_\_\_ organic matter is found in this "live" zone.
  - c. parent material \_\_\_\_ broken up pieces of bedrock
- 5. Circle all the factors that create soil.

parent material plants animals computers cars slope

- 6. A soil that is hard when dry, but sticky when wet is mostly made of \_\_\_\_\_\_.
  - a. sand
  - b. silt
  - c. clay
  - d. organic matter

7.	Vhich is the largest particle?					
	<ul><li>a. sand</li><li>b. silt</li><li>c. clay</li><li>d. loam</li></ul>					
8.	A mixture of sand, silt, and clay is said to be					
	<ul><li>a. an organic soil</li><li>b. mud</li><li>c. a loam</li><li>d. stirred up</li></ul>					
9.	Which soil would pack together in clods and allow little air and water into the soil?					
	<ul><li>a. sandy loam</li><li>b. silt loam</li><li>c. clay loam</li><li>d. gravel soil</li></ul>					
10.	. Circle all the statements that are true about	ut the Dust Bowl.				
	it was during the 1930s farmers had to move they had no cars weather was part of the problem	it is a football game Utah had its own dust bowl dust from topsoil covered many states farmers began to learn about conservation				
11.	. If you were looking for a book on soil cons	servation the book with the most information would be				
	<ul><li>a. The World of Water</li><li>b. Methods for Controlling Erosion</li><li>c. Weeds of Utah</li><li>d. Vegetable Growing</li></ul>					
12.	. Circle all the statements that are true about	ut organic matter.				
	it changes silt to sand allows soils to drain is food for bacteria and fungi	increases the nutrients in the soil floats on water, but eventually gets soaked and holds water makes soil more rocky				
13.	The texture of silt is smooth. Clay may feel smooth at first but becomes					
	<ul><li>a. gritty</li><li>b. brittle</li><li>c. loose</li><li>d. sticky</li></ul>					
14.	. Circle all the statements that are true about	ut why farmers produce more today than 25 years ago.				
	better machinery more sunlight today new types of clay have been discovered	scientists have developed more productive plants new crop protection chemicals farmers know more about soil conservation				

## Answers to "What I know about soils!"

- 1. d
- 2. check labeling
- 3. mineral matter and organic matter
- 4. b, a, c
- 5. all except cars & computers
- 6. c
- 7. a
- 8. c
- 9. c
- 10. all except "it's a football game" & "they had no cars"
- 11. b
- 12. all except "it changes silt to sand" & "makes soil more rocky"
- 13. d
- 14. all except "more sunlight" & "new types of clay discovered"