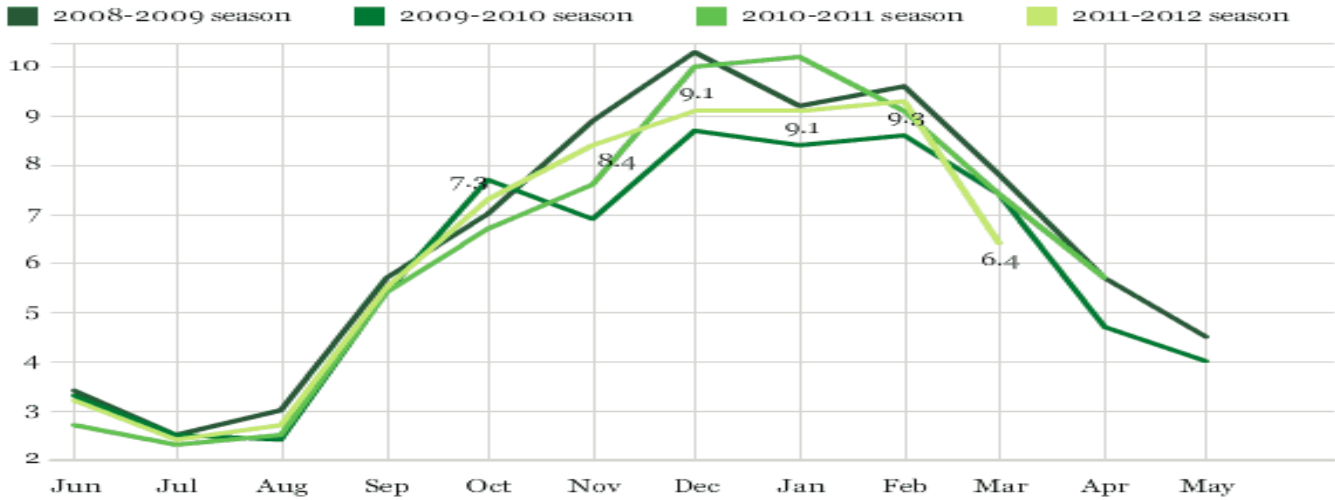


Average percentage of American adults reporting having a cold on any given day



Use the graph above to help answer the following questions.

- In which months would the common cold be most likely to be found? _____
- What is the definition of endemic? What percentage of the population would be endemic for the common cold? _____
- If there were 16 cases reported of the common cold throughout the US during July, they would be considered? _____
- If 15% of the population in Denver were experiencing the common cold in March this might be considered? _____
- Flu viruses that can be carried by transcontinental organisms, like birds, can be categorized as? _____

Complete the following short answer and discussion questions.

- Differentiate between ID_{50} and LD_{50} .
- Differentiate between bacteriostatic and bacteriocidal.
- List the three main methods of susceptibility testing and define.
 - _____
 - _____
 - _____

9. Differentiate between minimal bactericidal concentration and minimal inhibitory concentration.

10. Illustrate an example and describe how you would measure the zone of inhibition for a disk diffusion test.

11. Using the data table below determine the most likely source of the pathogen for the illness described. Seven friends spent the weekend hiking and camping together 4 of the seven developed the same rash.

Location	Betty	Peter	Mike	Tom	Ellen	Susie	April
Woodland Trail		X	X		X	X	
Pond (swimming)	X	X		X	X	X	X
Rock climbing	x	X	X	X			
White water rafting		X	X	X		X	X
Picnic area	x	X		X	X	X	X
Campsite tents	x	X	X	X	X		X
Exhibited Rash		x	x		x	X	

Source: _____

12. Using the data table from question 11, was the illness communicable or non-communicable? Defend your answer.

13. Discuss the difference between a biological vector and a mechanical vector.

14. Describe vehicle, fomite and droplet nuclei.