## **Group Activity** — Limiting Factors

This activity is to be completed in groups of 3 or 4.

Each of the statements below involves a situation that will affect the growth of a population. Classify each statement as DD (density dependent) or DI (density independent) and give a reason for your choice.

1.	A lion and a cheetah attempt to live in the same area and hunt the same food. The more aggressive lion survives, the cheetah does not.
	DD - competition
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2,	Coyotes cross the winter pack ice and enter Newfoundland. The moose population starts to decline.
	DD - predation
3.	A severe frost wipes out 50 percent of the coffee crop in Brazil.
4.	Careless smoking causes a forest fire, which destroys much of the wildlife in a region of northern Manitoba.
	DI- natural disaster
5.	Due to severe overcrowding in an Asian village, many children do not survive to reach adulthood.
	DD - competition

A severe flood in the Red River valley causes a decline in the deer population.  Di-natural disaster  Due to stress, large numbers of female lemmings miscarry their young and fail to reproduce.  Di-competition  Travelers who visit a crowded African village become infected with a disease caused by parasites.  Di-disease / parasite  Many fish die due to a change in the winds and the appearance of the El Niño ocean curren off the coast of Peru and Chile.  Di-went her
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DI - went her
. Rabbits in Australia have no natural enemies, so their population increases rapidly.
DD - predation (lack of)

12. Fish on a coral there.	reef stake out their territory and chase away any younger fish that try to live	/e
	competition	
13. The illegal dun	ping of industrial pollutants into a river causes a massive amount of fish to di	e
<u>DT</u> -	pollution	
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