

Concepts and Connections

CHAPTER 8 [Answers Key](#)

8
Questions 1–18 and A–C

Populations and communities

Checkup

1 STUDYING POPULATIONS (pp. 284–285)

1. What do the living organisms that form a population have in common?

They are of the same species, and they live in a shared space.

2. Give two examples of a plant population and two examples of an animal population.

Answers will vary. Examples: the cactus trees in Las Vegas and the dolphins in the northwestern blue gray lagoons on Maui, Hawaii and the shrubs at Mount St. Helens, Washington.

3. How can knowing the size of a wolf population be useful?

Answers will vary. Examples: It can tell us whether the population is healthy or in trouble, which will affect other species in the same environment.

4. For each of the following examples, name the factor that caused the population size to vary (births, deaths, immigration or emigration) and identify its effect.

a) Every spring, Canada geese return to the shores of Lake Thoreau.

b) During a logging operation, the noise from the forestry vehicles caused many the white-bellied deer in the vicinity.

c) In the spring, a female bear nurses her three cubs in her den.

d) Fish farmers stock a river with salmon fry.

e) Cottage owners can eliminate voles by installing traps in their yard.

Enter your answers in the table below.

Example	Factor	Effect on population size
a)	Immigration	Increases
b)	Emigration	Decreases
c)	Births	Increases
d)	Immigration	Increases
e)	Deaths	Decreases

Populations And Communities Answer Key

LL Leslie



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web procedure 1 the relationship between pressure and volume set the plunger of the syringe to 1 10 the capacity of the syringe the 2 0 ml mark if using a 20 ml syringe the volume is read from the edge of the bottom rib of the plunger attach the syringe to the connector at the end of sensor

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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1/267 per degree in 1874 victor regnault obtained better experimental results showing this number to be 1/273 and concluded that the pressure would approach zero at 1/273 degrees c

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web the volume of 1.00 mol of any gas at stp standard temperature 273.15 K and pressure 1 atm is measured to be 22.414 L we can substitute 101.325 kPa for pressure 22.414 L for volume and 273.15 K for temperature into the ideal gas equation and solve for R

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web chemists sometimes make comparisons against a standard temperature and pressure stp for reporting properties of gases 273.15 K and 1 atm 101.325 kPa 1 atm stp one mole of an ideal gas has a volume of about 22.4 L this is referred to as the standard molar volume figure 9.18

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web pressure increases even though there were errors in the experiment the goal of the experiment was met the goal of declaring what type of relationship it is was clear using the data pressure kpa temperature c temperature k constant k p t 95 82 kpa 16 0 c 289 k 0 33 97 90 kpa 19 0 c 292 k 0 34 98 97 kpa 99 22 kpa 101 4 kpa 19 1 c

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web the properties of water at constant volume can be represented as a function of pressure and temperature as shown in the diagram below figure 1 the pressure temperature relationship at constant volume the saturation point of water is the condition at which a phase change occurs from liquid to vapour or vapour to liquid

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web figure pageindex 5 the empirically determined relationships among pressure volume temperature and amount of a gas the thermometer and pressure gauge indicate the temperature and the pressure qualitatively the level in the flask indicates the volume and the number of particles in each flask indicates relative amounts