

I'm not robot!



Density Practice Problem Worksheet

Remember to include significant figures with your answer. Be sure to include units!

- 1) A block of aluminum occupies a volume of 15.0 mL and weighs 40.5 g. What is its density?
- 2) Mercury metal is poured into a graduated cylinder that holds exactly 22.5 mL. The mercury used to fill the cylinder weighs 306.0 g. From this information, calculate the density of mercury.
- 3) What is the weight of the ethyl alcohol that exactly fills a 200.0 mL container? The density of ethyl alcohol is 0.789 g/mL.
- 4) A rectangular block of copper metal weighs 356 g. The dimensions of the block are 4.4 cm by 5.5 cm by 6.4 cm. From this data, what is the density of copper?
- 5) A flask that weighs 345.4 g is filled with 22.5 mL of carbon tetrachloride. The weight of the flask and carbon tetrachloride is found to be 703.1 g. From this information, calculate the density of carbon tetrachloride.
- 6) Calculate the density of sulfuric acid if 35.4 mL of the acid weighs 65.14 g.
- 7) Find the mass of 250.0 mL of benzene. The density of benzene is 0.8785 g/mL.
- 8) A block of lead has dimensions of 4.50 cm by 5.20 cm by 6.00 cm. The block weighs 1587 g. From this information, calculate the density of lead.
- 9) 28.5 g of iron shot is added to a graduated cylinder containing 45.50 mL of water. The water level rises to the 49.50 mL mark. From this information, calculate the density of iron.
- 10) What volume of silver metal will weigh exactly 2000 g. The density of silver is 10.5 g/mL.



The Scientific Method with the Simpsons

1. Smithers thinks that a special juice will increase the productivity of workers. He creates two groups of 50 workers each and assigns each group the same task (in this case, they're supposed to staple a set of papers). Group A is given the special juice to drink while they work. Group B is not given the special juice. After an hour, Smithers counts how many stacks of papers each group has made. Group A made 1,587 stacks, Group B made 2,113 stacks.



- Identify the:
- Control Group
Group B
 - Independent Variable
Whether the group gets the special juice
 - Dependent Variable
How many stacks of paper are stapled
 - What should Smithers' conclusion be?
The juice does not increase productivity
 - How could this experiment be improved?

2. Homer notices that his shower is covered in a strange green slime. His friend Barney tells him that coconut juice will get rid of the green slime. Homer decides to check this out by spraying half of the shower with coconut juice. He sprays the other half of the shower with water. After 3 days of "treatment" there is no change in the appearance of the green slime on either side of the shower.



- What was the initial observation?
His shower was covered in slime
- Identify the:
- Control Group
The side of the shower sprayed with water
 - Independent Variable
The coconut juice
 - Dependent Variable
The appearance of the green slime

Density dependent and density independent limiting factors worksheet answers. What is an example of density dependent limiting factor. What are density-dependent limiting factors.

Thank you for your participation! Limits to Growth
A female cottontail rabbit (*Sylvilagus floridanus*) can give birth as often as seven times a year. A female American toad (*Anaxyrus americanus*) can lay thousands of eggs every spring. So why are the meadows and forests of the eastern United States not literally hopping with rabbits and toads? In nature, the size of a population and the rate of population growth are influenced by what ecologists call "limiting factors." Take It to the Limit
Think about all the different resources that two common animals need to stay alive. Cottontail rabbits need food to eat (grasses and other plants), water to drink, and a safe place to raise their young. American toads eat insects and, though they often live in forest habitat, need ponds or puddles to lay their eggs. Both toads and rabbits have to watch out for predators. But even if they avoid a hungry hawk or snake, they face other potentially deadly dangers, including diseases, forest fires, or drought. Any of these factors—food, shelter, breeding sites, predators, and more—may serve to limit the growth of a rabbit or toad population. Often, the population is affected by several limiting factors that act together. Density Matters—Unless It Does Not
Limiting factors fall into two broad categories: density-dependent factors and density-independent factors. These names mean just what they say: Density-independent factors have an impact on the population, whether the population is large or small, growing or shrinking. For example, a wildfire that sweeps through a dense forest in the Everglades has a big impact on every population in the community, regardless of the density of any one population. Wildfire is abiotic (nonliving), and most density-independent limiting factors fall in this category. Other density-independent factors include hurricanes, pollutants, and seasonal climate extremes. Density-dependent limiting factors tend to be biotic—having to do with living organisms. Competition and predation are two important examples of density-dependent factors. Mountain chickadees (*Parus gambeli*) compete for a special kind of nest site—tree holes. These little cavities are excavated and then abandoned by woodpeckers. Scientists who added new nest sites in one expanse of forest saw the chickadee nesting population increase significantly, suggesting that nest sites are a density-dependent limiting factor. A small furry rodent found in eastern Greenland called the collared lemming (*Dicrostonyx groenlandicus*) is a good example of how predation can be a density-dependent limiting factor. The population goes through a boom-and-bust cycle every four years. The lemming population grows to as much as 1,000 times its initial size, then crashes. The cause is stoats (*Mustela erminea*), a type of weasel that hunts and eats lemmings almost exclusively. Stoats do not reproduce as fast as lemmings, so after a crash, when both stoat and lemming numbers are low, stoats do not have much impact on the lemming population. But by the fourth year, after the stoat population has had time to grow to greater numbers, the stoats—together with other predators—cause another lemming crash, and the cycle continues. Carrying Capacity
If a population is small and resources are plentiful, a population may grow quickly. But over time, because of limiting factors, population growth tends to slow and then stop. The population has reached the "carrying capacity" of the ecosystem. If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked.

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