G.	Ν	1Œ	ì.2

Apply	y concepts of density	based on a	rea and volu	me in mode	eling situations,	e.g., persons	per so	quare
mile,	BTUs per cubic foot.	*						

G.MG.2 OH.2025.Q37

The density of gold is 19.32 grams (g) per cubic centimeter (cm). A solid rectangular block of gold with dimensions 5 cm by 9 cm by 21 cm is placed on a scale.

What is the mass, in grams, of the solid block of gold?



G.MG.2 OH.2024.Q26

A baseball has a volume of 12.75 cubic inches (in.3) and a mass of 144.585 grams (g).

What is the density, in grams per cubic inch, of the baseball?



G.MG.2 OH.2023.Q27

A brick has a mass of 2,022.75 grams and a volume of 1,064.5 cubic centimeters.

What is the density of the brick, in grams per cubic centimeter  $\left(\frac{g}{cm^3}\right)$ ? Round your answer to the nearest tenth.



G.MG.2	OH.2022.Q23*
Westville has a land area of 84.4 square miles. In 2015, the popul 22.5 people per square mile.	ation density was
In 2016, the population was 2,000 people.	
By how many people did the population of Westville increase bet 2016?	tween 2015 and
G.MG.2	OH.2018.Q11
Jeremy wants to know the density of a rock in grams per cubic centimeter. The roc and a volume of 400 cubic centimeters.	ck has a mass of 1.08 kilograms
What is the density of the rock, in <b>grams</b> per cubic centimeter $\left(\frac{g}{cm^3}\right)$ ?	
$\frac{g}{cm^3}$	
G.MG.2	OH.2017.Q12
A study reports that in 2010 the population of the United States was 308,745, was approximately 3,531,905 square miles.	,538 people and the land area
Based on the study, what was the population density, in people per square mit Round your answer to the nearest tenth.	le, of the United States in 2010?
people per square mi	ile

G.MG.2 OH.2016.Q1

In 2014, the population of Hong Kong was estimated to be approximately 7,112,688 people. The city covers an area of approximately 426.25 square miles.	
What was the population density of Hong Kong in 2014, in people per square mile, rounded to the nearest person?	