

SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET

NAME: Answer Key

- 1) A student measures the mass of an 8 cm^3 block of brown sugar to be 12.9 g . What is the density of the brown sugar?

$$\frac{12.9 \text{ g}}{8 \text{ cm}^3} = \underline{1.61 \text{ g/cm}^3}$$

- 2) A chef fills a 50 mL container with 43.5 g of cooking oil. What is the density of the oil?

$$\frac{43.5 \text{ g}}{50 \text{ mL}} = \underline{.87 \text{ g/mL}}$$

- 3) Calculate the mass of a liquid with a density of 2.5 g/mL and a volume of 15 mL .

$$2.5 \text{ g/mL} \times 15 \text{ mL} = \underline{37.5 \text{ g}}$$

- 4) Calculate the volume of a liquid with a density of 5.45 g/mL and a mass of 65 g .

$$\frac{65 \text{ g}}{5.45 \text{ g/mL}} = \underline{11.93 \text{ mL}}$$

- 5) A machine shop worker records the mass of an aluminum cube as 176 g . If one side of the cube measures 4 cm , what is the density of the aluminum?

$$V = 4 \text{ cm} \times 4 \text{ cm} \times 4 \text{ cm}$$

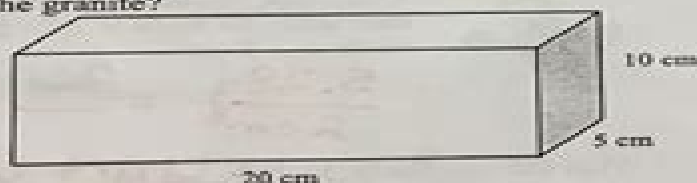
$$V = 64 \text{ cm}^3$$

$$\frac{176 \text{ g}}{64 \text{ cm}^3} = \underline{2.75 \text{ g/cm}^3}$$

- 6) A teacher performing a demonstration finds that a piece of cork displaces 23.5 mL of water. The piece of cork has a mass of 5.7 g . What is the density of the cork?

$$\frac{5.7 \text{ g}}{23.5 \text{ mL}} = \underline{.24 \text{ g/mL}}$$

- 7) A carver begins work on the following block of granite that weighs 2700 g . What is the density of the granite?



$$V = 10 \text{ cm} \times 5 \text{ cm} \times 20 \text{ cm} = \underline{? \text{ cm}^3} \times 1000$$

$$\frac{2700 \text{ g}}{? \text{ cm}^3} = \underline{2.7 \text{ g/cm}^3}$$

- 8) A piece of PVC plumbing pipe displaces 60 mL when placed into a container of water. If the pipe has a mass of 78 g , what is the density of PVC?

$$\frac{78 \text{ g}}{60 \text{ mL}} = \underline{1.3 \text{ g/mL}}$$

- 9) A solid magnesium flare has a mass of 1300 g and a volume of 743 cm^3 . What is the density of the magnesium?

$$\frac{1300 \text{ g}}{743 \text{ cm}^3} = \underline{1.75 \text{ g/cm}^3}$$

Answers For Science Homework

RD Boyd



Answers For Science Homework:

Answers For Science Homework: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. Answers For Science Homework : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Answers For Science Homework : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Answers For Science Homework : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Popen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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