



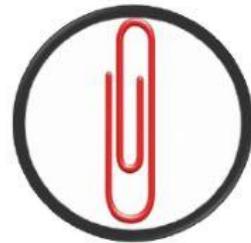
# DENSITY

Solve the following problems on density.

1. Frank has a paper clip. It has a mass of 9g and a volume of  $3\text{cm}^3$ . What is its density?

The density of the paper clip is

$\text{g/cm}^3$



2. Frank also has an eraser. It has a mass of 3g, and a volume of  $1\text{cm}^3$ . What is its density?



The density of the eraser is

$\text{g/cm}^3$

3. Jack has a rock. The rock has a mass of 6g and a volume of  $3\text{cm}^3$ . What is the density of the rock?

The density of the rock is

$\text{g/cm}^3$



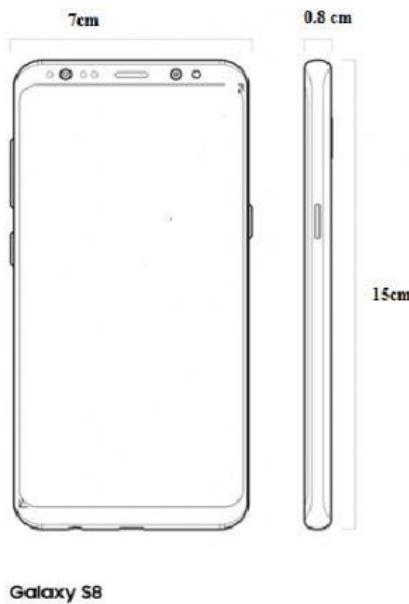


4. Jill has a gel pen. The gel pen has a mass of 8g and a volume of  $2\text{cm}^3$ . What is the density of the gel pen?



The density of the gel pen is  
 $\text{g/cm}^3$

5. The Samsung Galaxy S8 has the following dimensions ( length- 15cm width - 7cm and height - 0.8 cm) and weighs 155 grams. What is the density of the Samsung S8?



Mass = g

Volume =

$\text{cm} \times \text{cm} \times \text{cm} = \text{cm}^3$

The density of the Samsung S8 is

$\text{g} \div \text{cm}^3 = \text{g/cm}^3$

(Round off your answer to 2 decimal places)



6. The Samsung Galaxy S10e has the following dimensions (length- 14cm width - 7cm and height - 0.8 cm) and weighs 150 grams.  
What is the density of the Samsung S10e?



Mass = g

Volume =  
 $\text{cm} \times \text{cm} \times \text{cm}$   
 $\text{cm} = \text{cm}^3$

The density of the Samsung S10e is

$\text{g} \div \text{cm}^3 = \text{g/cm}^3$

(Round off your answer to 2 decimal places)

7. Which cell phone is less dense?

The Samsung is less dense than the

the Samsung.



8. What is the density of the wooden cube if its mass is 375 grams and its height is 5cm?



Density =

$$g \div ( \quad \text{cm} \times \quad \text{cm} \times \quad \text{cm}) \\ = \qquad \qquad \qquad g/\text{cm}^3$$