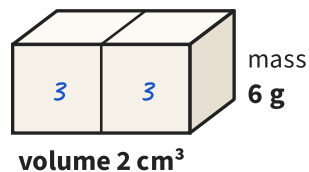


Density

ANSWERS

1

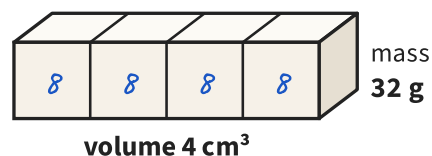
A stone has a mass of 6 g.
Its volume is 2 cm³. Find its density.



$$6 \div 2 = 3 \text{ g/cm}^3$$

2

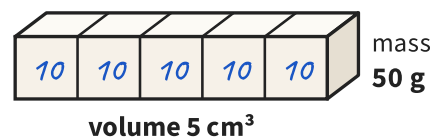
An iron block has a mass of 32 g.
Its volume is 4 cm³. Find its density.



$$32 \div 4 = 8 \text{ g/cm}^3$$

3

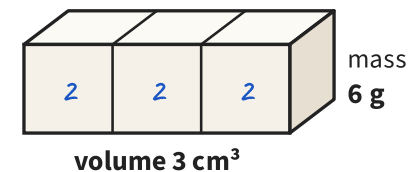
A metal bar has a mass of 50 g.
Its volume is 5 cm³. Find its density.



$$50 \div 5 = 10 \text{ g/cm}^3$$

4

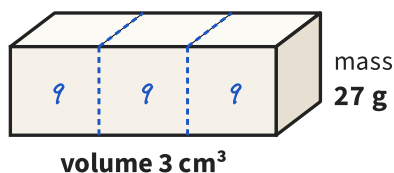
A piece of brick has a mass of 6 g.
Its volume is 3 cm³. Find its density.



$$6 \div 3 = 2 \text{ g/cm}^3$$

5

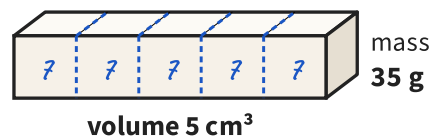
A copper block has a mass of 27 g.
Its volume is 3 cm³. Find its density.



$$27 \div 3 = 9 \text{ g/cm}^3$$

6

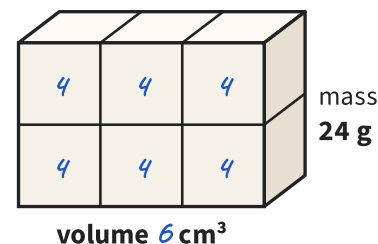
A metal block has a mass of 35 g.
Its volume is 5 cm³. Find its density.



$$35 \div 5 = 7 \text{ g/cm}^3$$

7

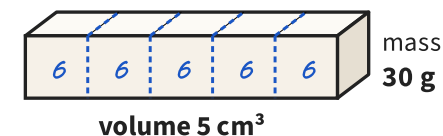
This block is made of 1 cm³ cubes.
Its mass is 24 g. Find its density.



$$24 \div 6 = 4 \text{ g/cm}^3$$

8

Ben weighs his toy car. Its mass is 30 g. The car has a volume of 5 cm³.
Find its density.



$$30 \div 5 = 6 \text{ g/cm}^3$$

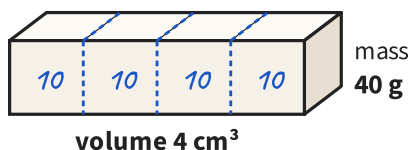
Density *further practice*

ANSWERS

9



A metal weight has a mass of 40 g.
Its volume is 4 cm³. Find its density.

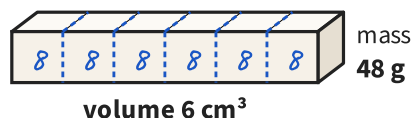


$$40 \div 4 = 10 \text{ g/cm}^3$$

10



A steel bar has a mass of 48 g.
Its volume is 6 cm³. Find its density.

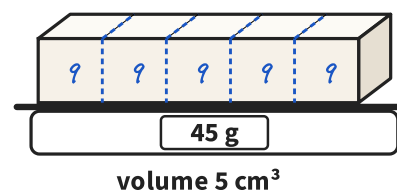


$$48 \div 6 = 8 \text{ g/cm}^3$$

11



The scales show the mass of
this block. Its volume is 5 cm³.
Find its density.

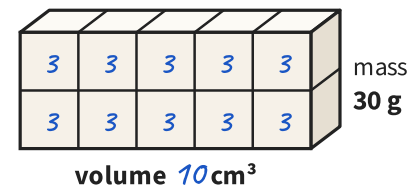


$$45 \div 5 = 9 \text{ g/cm}^3$$

12



This stone is made of 1 cm³ cubes.
Its mass is 30 g. Find its density.

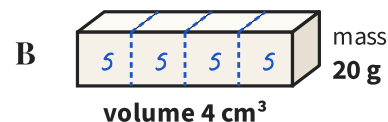
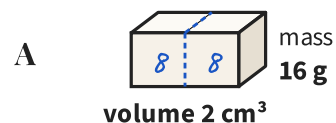


$$30 \div 10 = 3 \text{ g/cm}^3$$

13



Which block is denser, A or B?



$$A: 16 \div 2 = 8 \text{ g/cm}^3$$

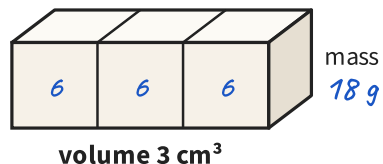
$$B: 20 \div 4 = 5 \text{ g/cm}^3$$

Answer Block A

14



A block has a density of 6 g/cm³.
Its volume is 3 cm³. Find its mass.



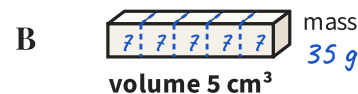
$$6 + 6 + 6 = 18, \text{ or } 6 \times 3 = 18$$

Answer 18 g

15



Blocks A and B are made of the
same metal.
Find the mass of block B.



$$14 \div 2 = 7 \text{ g/cm}^3$$

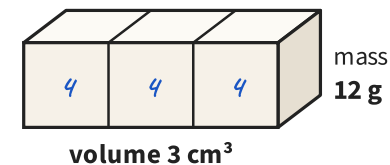
$$7 \times 5 = 35$$

Answer 35 g

16



Sam says the density of this block
is 36 g/cm³.
What has Sam done wrong?



Sam is wrong because
he multiplied 12 by 3.

$$\text{He must divide: } 12 \div 3 = 4$$

Right answer 4 g/cm³