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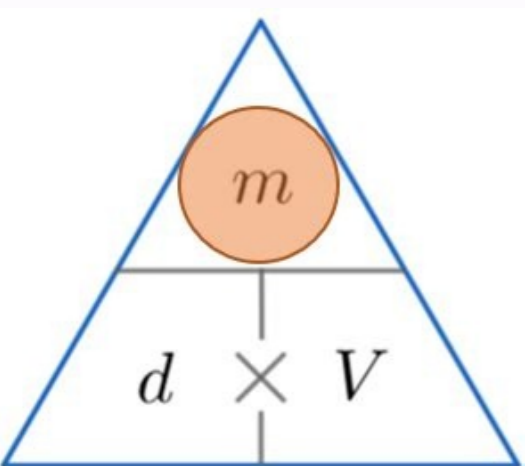
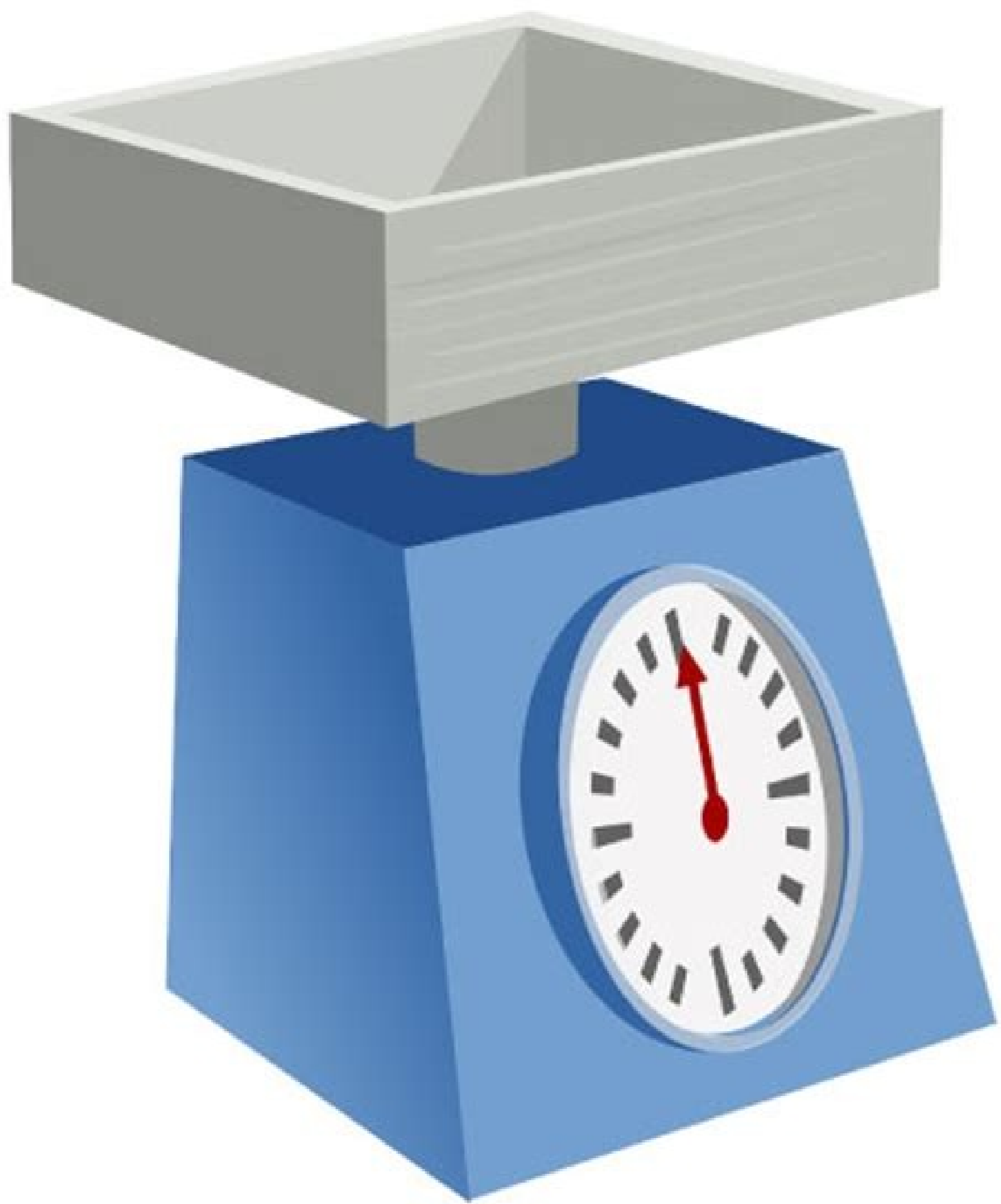
Next

Understanding Concepts of Volume Worksheets

Volume Cubes
 Find the volume of each cube. Use cubic centimeters for your units. Follow the guide below.

More Complex Cubes
 Analyze the following prisms. Write down the length, width, and height by counting the volume cubes that make up the figures. Each dimension is in cm.

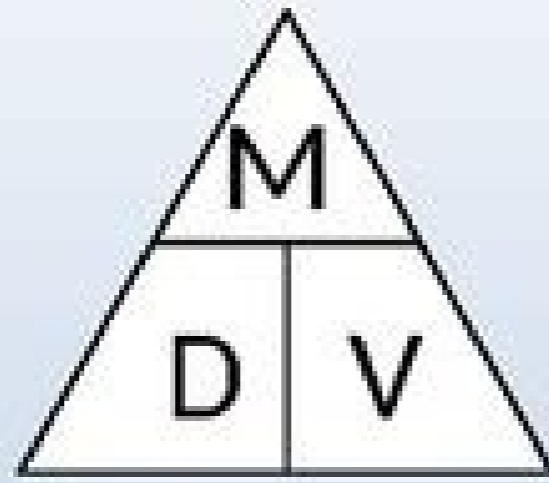
Three Dimension Calculation
 Given the three dimensions, calculate the volume of these rectangular prisms.



$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

$$\text{Density} \times \text{Volume} = \text{Mass}$$

$$\text{Volume} = \frac{\text{Mass}}{\text{Density}}$$

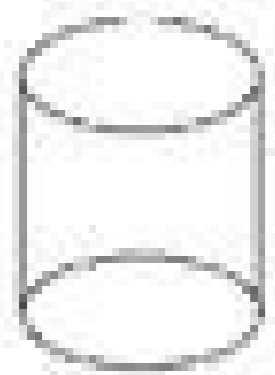


Example

Find the mass for a material with density 6.5 g/cm^3 which has a volume 3.5 cm^3

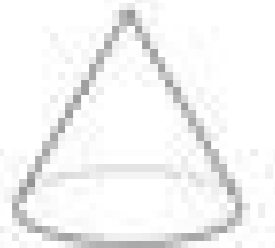
$$\begin{aligned} \text{Mass} &= \text{Density} \times \text{Volume} \\ &= 6.5 \times 3.5 \\ &= 22.75 \text{ g} \end{aligned}$$

Volumes of Prisms



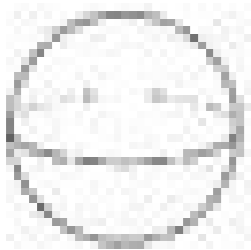
Cylinder

$$V = (\pi r^2)(h)$$



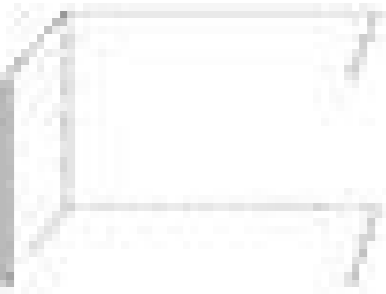
Cone

$$V = \frac{(\pi r^2)(h)}{3}$$



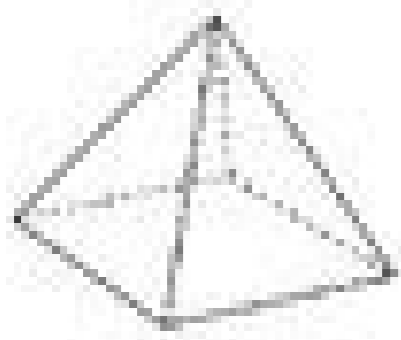
Sphere

$$V = \frac{4}{3} \pi r^3$$



Rectangular Prism

$$V = l \times w \times h$$



Pyramid

$$V = \frac{l \times w \times h}{3}$$

Level 4-5GCSEKS3 A handy way of remembering how to calculate either density, mass or volume is to use the triangles below. $2 \text{ kg} = 2000 \text{ g}$ Therefore, the volume of the olive oil can be calculated as follows: $\text{Volume} = \frac{2000}{0.925} = 2162 \text{ cm}^3$ We are calculating the mass, so by covering up the m we can see from the triangle above that we have to multiply d by V. Calculate its density. [2 marks] We're looking for density, so constructing the triangle and covering d, we see we must divide the mass by the volume. This means when dividing mass by volume, the resulting units are typically grams per cubic centimetre (g/cm^3), or kilograms per cubic metre (kg/m^3). Volume of metal C = $234.375 + 318.18 = 552.5568 \text{ cm}^3$ We now know both the mass and volume of metal C, so we are now able to calculate its density. Level 4-5 GCSE KS3 Density, mass and volume are all related by the formula, $d = \frac{m}{V}$ where d is density, V is volume, and m is mass. This can be rearranged in order to find volume or mass depending on which quantities you are given and what the question asks you to find. [2 marks] We're looking for mass, so constructing the triangle and covering m, we see that to calculate the mass we must multiply the density by the volume. Since $\text{density} = \frac{\text{mass}}{\text{volume}}$ then $\text{volume} = \frac{\text{mass}}{\text{density}}$ The volume of metal A can be calculated as follows: $750 \text{ g} \div 3.2 \text{ g/cm}^3 = 234.375 \text{ cm}^3$ The volume of metal A can be calculated as follows: $1750 \text{ g} \div 5.5 \text{ g/cm}^3 = 318.18 \text{ cm}^3$ If metal A has a volume of 234.375 cm^3 and metal B has a volume of 318.18 cm^3 , then their combined volume is the volume of metal C. So $\text{density} = \frac{570}{(2280)} = 0.25 \text{ g/cm}^3$ Level 4-5 GCSE KS3 A cat has volume 0.004 m^3 and density 980 kg/m^3 . Calculate the mass of the cat. Level 4-5GCSEKS3 An object has a mass of 570 g and a volume of 2280 cm^3 . Before we can do this, however, we have to make sure that we have the correct units. We then cover up the one we want to find (represented by a red circle) and carry out the calculation with the other two values from the triangle. By rearranging the density formula, or using the triangle, we can work out how to calculate the volume: $\text{density} = \frac{\text{mass}}{\text{volume}}$ So: $\text{volume} = \frac{\text{mass}}{\text{density}}$ The volume of metal A can be calculated as follows: $1200 \text{ g} \div 5 \text{ g/cm}^3 = 240 \text{ cm}^3$ The volume of metal B can be calculated as follows: $600 \text{ g} \div 3 \text{ g/cm}^3 = 200 \text{ cm}^3$ Therefore, if metal A has a volume of 240 cm^3 and B has a volume of 200 cm^3 , then their combined volume is simply: $240 \text{ cm}^3 + 200 \text{ cm}^3 = 440 \text{ cm}^3$ b) As we know from question a), the newly-formed block has a volume of 440 cm^3 . These are compound units (for more information, see conversions revision). So $\text{Volume} = \frac{0.5}{1000} = 0.0005 \text{ m}^3$ Multiplying this by 1000 to convert into litres, gives us the final answer, $\text{Volume} = 0.5 \text{ L}$ Level 4-5 GCSE KS3 We are calculating the volume, so by covering up the V we can see from the triangle above that we have to divide m by d. Calculate the volume of the water bottle giving your answer in litres. The mass is in kilograms, but the density is in grams per cubic centimetre. This means that we have to first convert the kilograms into grams before proceeding. Density of metal C = $2500 \text{ g} \div 552.5568 \text{ cm}^3 = 4.5 \text{ g/cm}^3$ Related Topics However, we don't know the volume, but we do know that the shape is a cube with a side length of 7 m , so the volume of the cube is: $7 \times 7 \times 7 = 343 \text{ m}^3$ Now that we know the volume, we can multiply it by the density in order to calculate the mass: $\text{Mass} = 343 \times 10,800,000 = 3,704,400,000 \text{ kg}$ To calculate the answer here, we need to recall the formula: $\text{density} = \frac{\text{mass}}{\text{volume}}$ In this question, the mass is 2460 kg and the volume is 1.2 m^3 , so we simply need to substitute these values into the formula as follows: $\text{Density} = \frac{2460 \text{ kg}}{1.2 \text{ m}^3} = 2050 \text{ kg/m}^3$ a) In order to calculate the overall volume of the block, we need to add the volume of metal A and the volume of metal B. Although we don't have the volume of either metal, we have been given their masses and densities, so we can calculate the volume of each metal accordingly. [2 marks] We're looking for volume, so covering V, we must divide the mass by the density. The horizontal line means divide and the times symbol means multiply. Mass is normally measured in grams, g, or kilograms, kg, whereas, volume is normally measured in cubic centimetres, cm^3 , or cubic metres, m^3 . We know that the mass of metal A was 1200 g and the mass of metal B was 600 g , so mass of the block is: $1200 \text{ g} + 600 \text{ g} = 1800 \text{ g}$ The density of this block can be calculated by dividing the mass by the volume as follows: $1800 \text{ g} \div 440 \text{ cm}^3 = 4.09 \text{ g/cm}^3$ This is quite a challenging question with a lot of calculations going on. So $\text{Mass} = 980 \times 0.004 = 3.92 \text{ kg}$ Level 4-5 GCSE KS3 A bottle of water has a density of 1000 kg/m^3 and mass of 0.5 kg . Since we have been given the mass of metal C and the ratio of metal A and metal B in metal C, we can therefore calculate the mass of metal A and metal B. If the ratio of metal A to metal B is $3 : 7$, that means that $\frac{3}{10}$ of the mass of metal C comes from metal A and the remaining $\frac{7}{10}$ is metal B. (We are dealing in tenths here since the sum of the ratio is 10.) The mass of metal A can be calculated as follows: $2500 \text{ g} \times \frac{3}{10} = 750 \text{ g}$ The mass of metal B can be calculated as follows: $2500 \text{ g} \times \frac{7}{10} = 1750 \text{ g}$ We now know both the mass and density of both metals A and B, meaning we can work out their respective volumes.

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