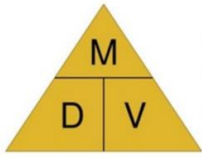




New Maths GCSE: R11 - Density, Mass, Volume - Formula Triangles

Name:

Date:

 What is the correct formula to calculate **Density**?

A $\frac{\text{Mass}}{\text{Volume}}$ **B** $\frac{\text{Volume}}{\text{Mass}}$

C $\text{Mass} + \text{Volume}$ **D** $\text{Mass} \times \text{Volume}$

Correct Answer: A B C D

Explanation:

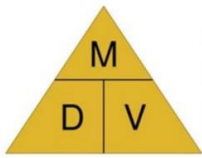
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 What is the correct formula to calculate **Mass**?

A $\frac{\text{Density}}{\text{Volume}}$ **B** $\frac{\text{Volume}}{\text{Density}}$

C $\text{Density} + \text{Volume}$ **D** $\text{Density} \times \text{Volume}$

Correct Answer: A B C D

Explanation:

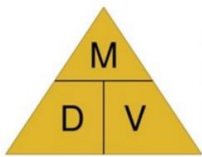
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 What is the correct formula to calculate **Volume**?

A $\frac{\text{Density}}{\text{Mass}}$ **B** $\frac{\text{Mass}}{\text{Density}}$

C $\text{Mass} + \text{Density}$ **D** $\text{Mass} \times \text{Density}$

Correct Answer: A B C D

Explanation:


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A stone has a mass of 310g and a volume of 520cm³.
What is its density in kg/cm³?

A 310 + 520 **B** 310 ÷ 520

C 310 × 520 **D** 520 ÷ 310

Correct Answer: A B C D

Explanation:


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A piece of metal has a mass of 4kg and a volume of 800cm³.
What is its density in g/cm³?

A 4000 ÷ 800 **B** 800 ÷ 4

C 4 × 800 **D** 4 ÷ 800

Correct Answer: A B C D

Explanation:


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A brick has a mass of 7kg and a volume of 325cm³.
What is its density in kg/m³?

A 7 ÷ 325 **B** $\frac{7}{325} \div 100$

C $\frac{7}{325} \times 1000000$ **D** $\frac{7}{325} \div 1000000$

Correct Answer: A B C D

Explanation:


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A toy car has a volume of 32m³ and a density of 21kg/m³.
What is its mass in kg?

A 32 + 21 **B** 32 ÷ 21

C 21 × 32 **D** 21 ÷ 32

Correct Answer: A B C D

Explanation:


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A piece of space rock has a volume of 32cm^3 and a density of 400g/cm^3

What is its mass in kg?

A $32 \times 400 \times 100$ **B** $32 \times 400 \div 1000$

C 32×400 **D** $32 \times 400 \times 1000$

Correct Answer: A B C D

Explanation:


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A car has a mass of 875kg and a density of 39kg/m^3

What is its volume in m^3 ?

A $875 + 39$ **B** $875 \div 39$

C 875×39 **D** $39 \div 875$

Correct Answer: A B C D

Explanation:


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A rock has a mass of 2.1kg and a density of 9kg/m^3

What is its volume in cm^3 ?

A $2.1 \div 9 \times 1000000$ **B** $2.1 \div 9 \div 100$

C $2.1 \div 9 \times 100$ **D** $2.1 \div 9$

Correct Answer: A B C D

Explanation:

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