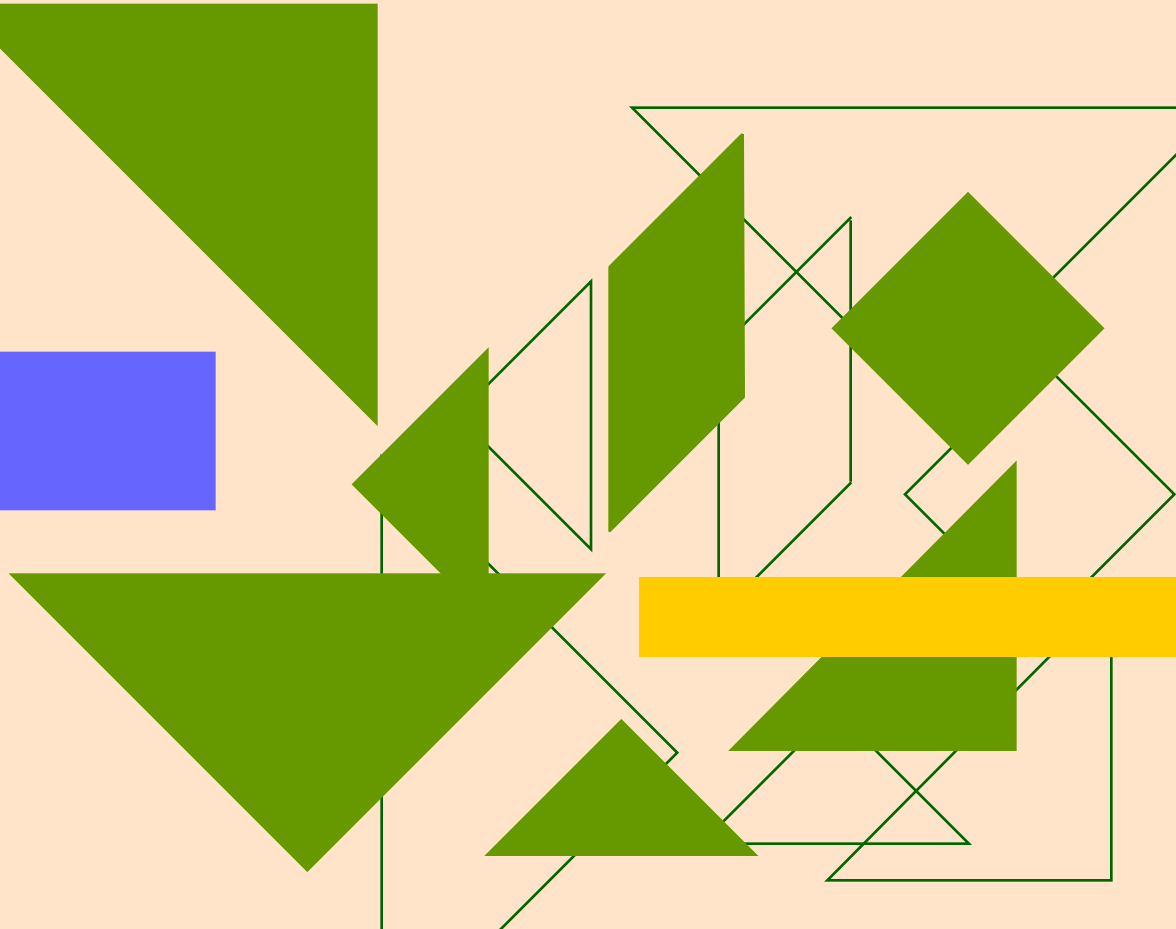
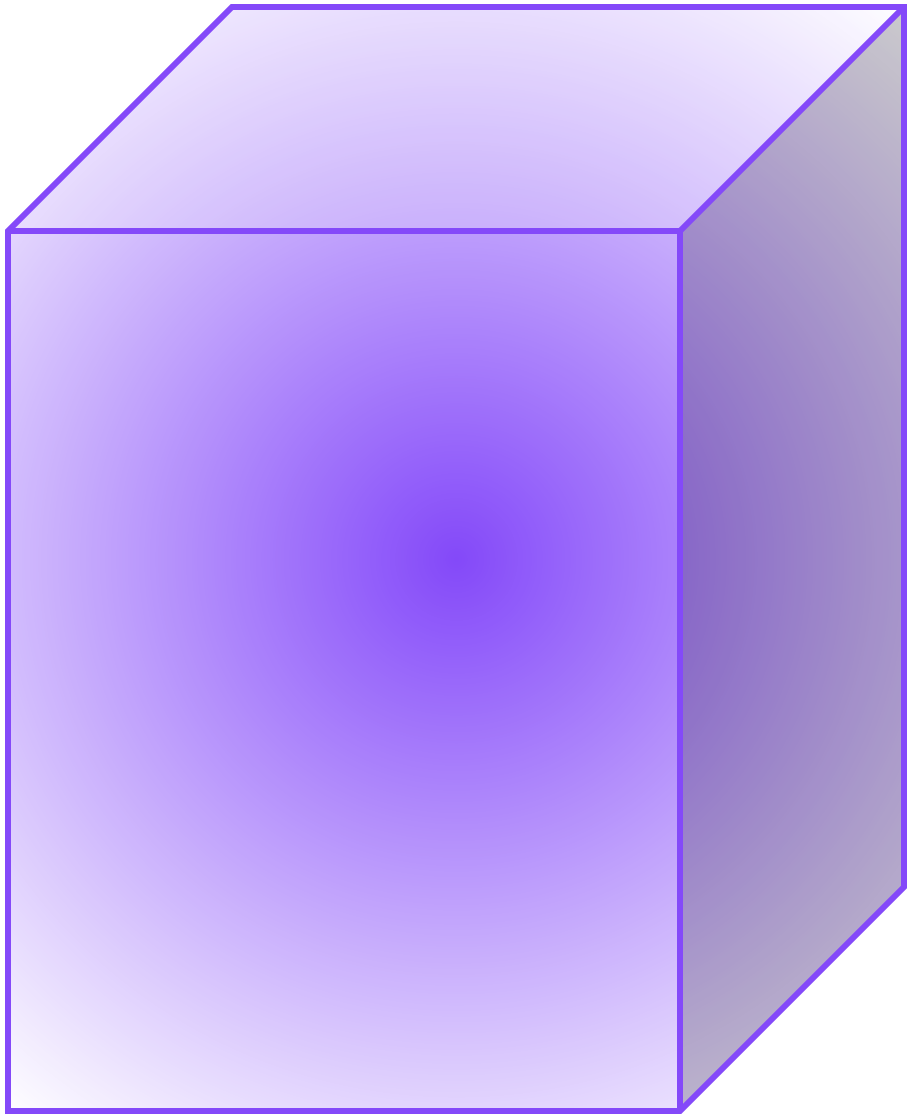
Объем прямоугольного параллелепипеда

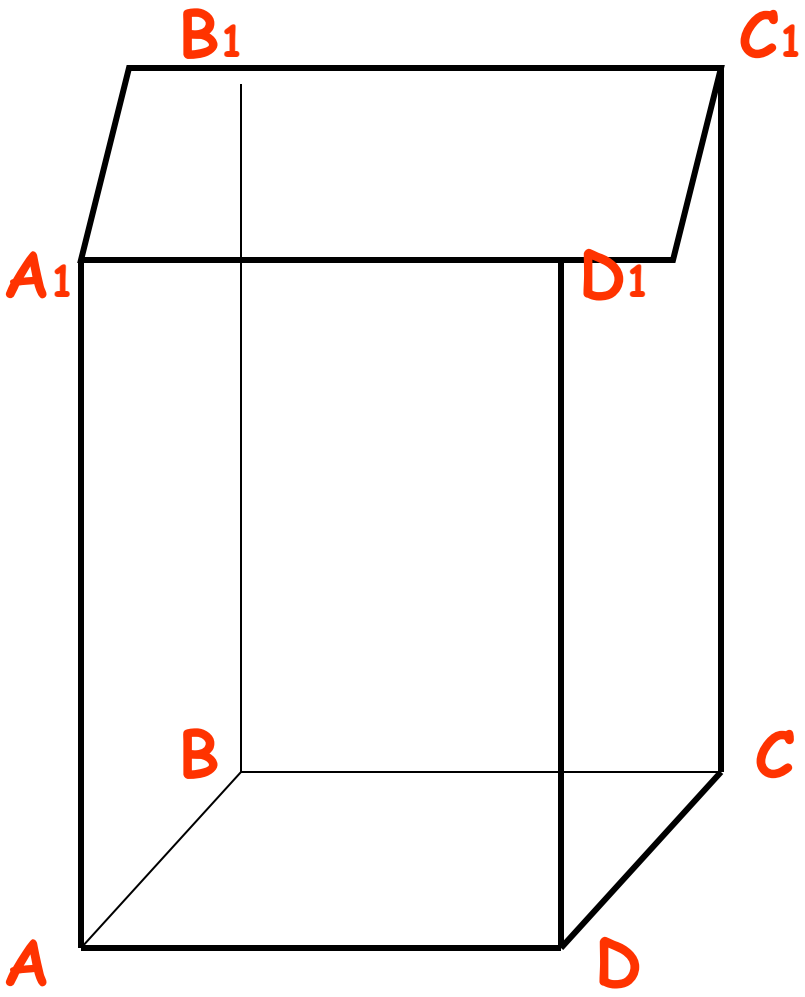
Математика, 5 класс
Логунова Л.В.



Прямоугольный параллелепипед



Прямоугольный параллелепипед

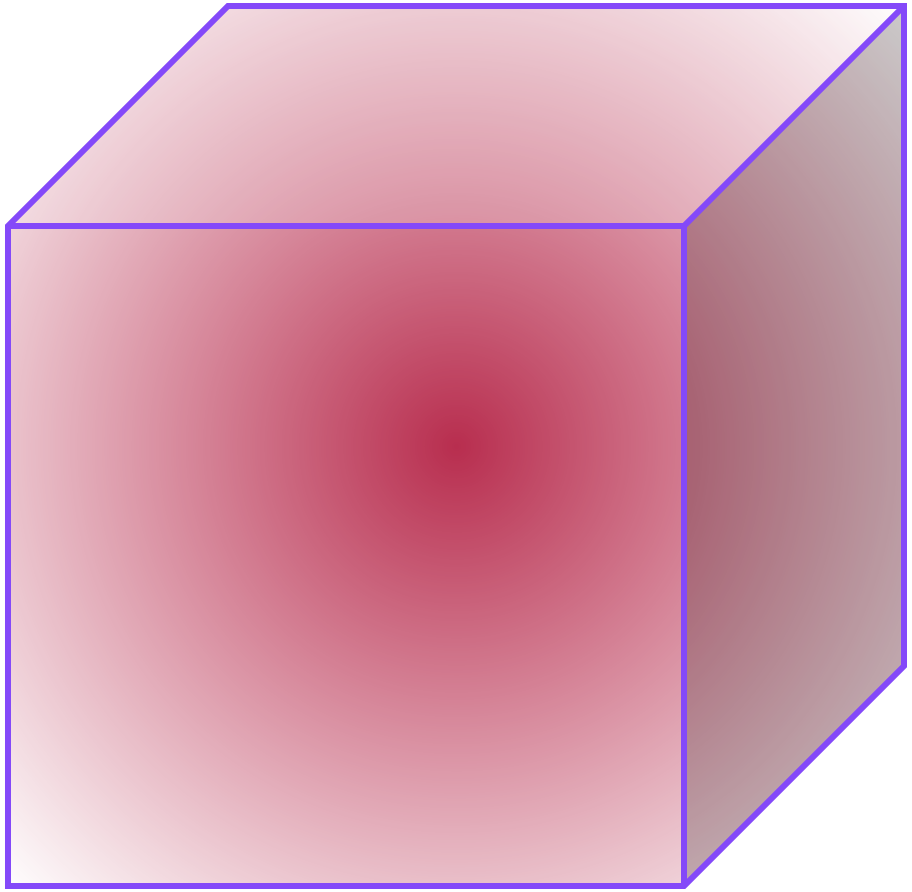


Вершин - 8

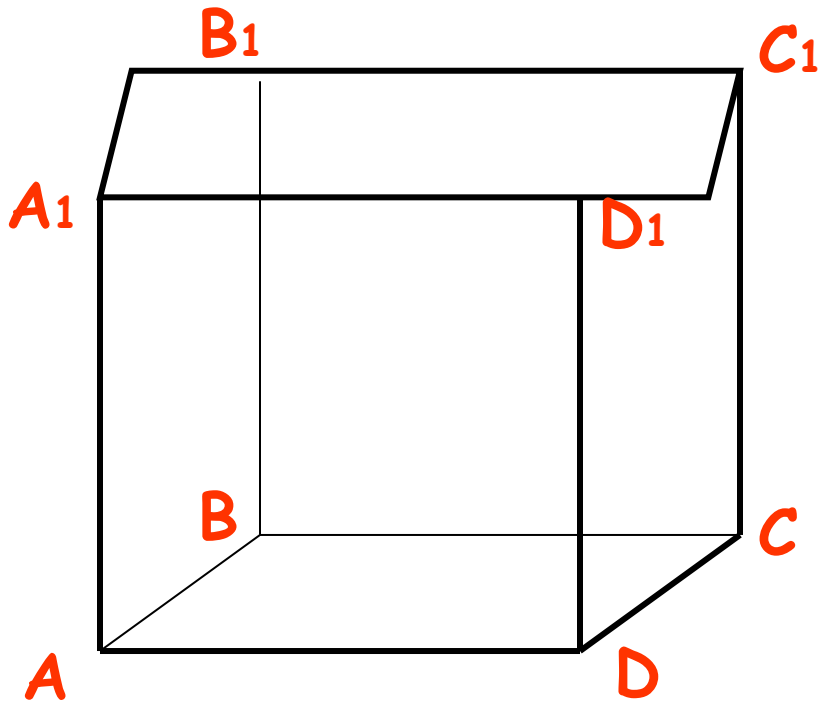
Ребер - 12

Граней - 6

Куб



Куб

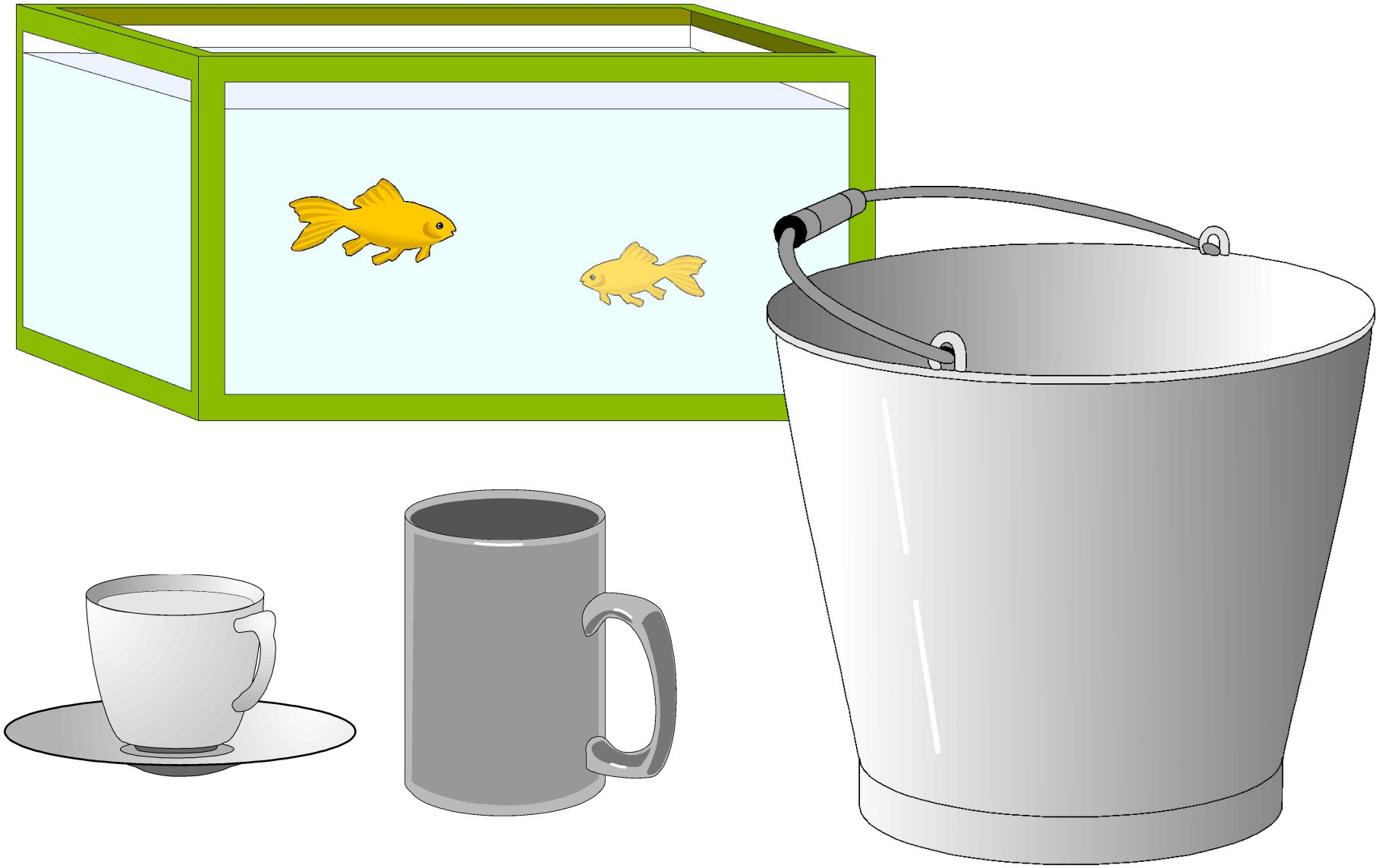


Вершин - 8

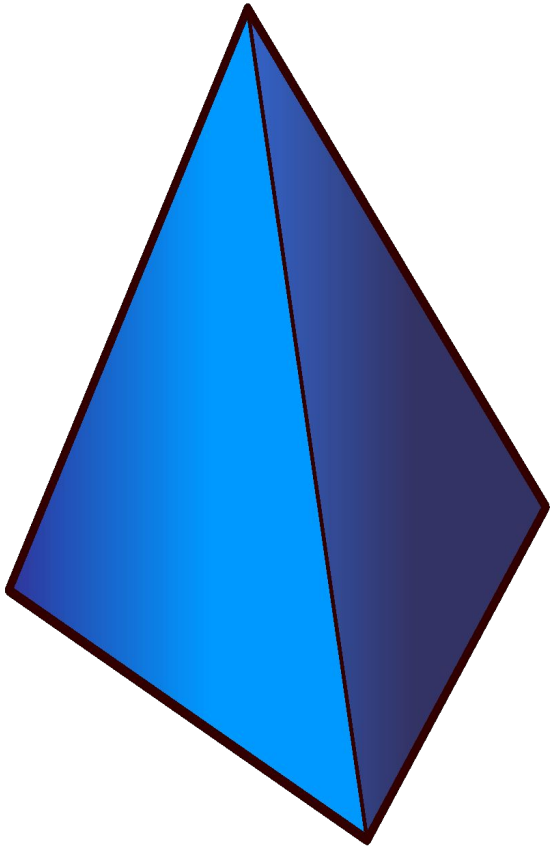
Ребер - 12

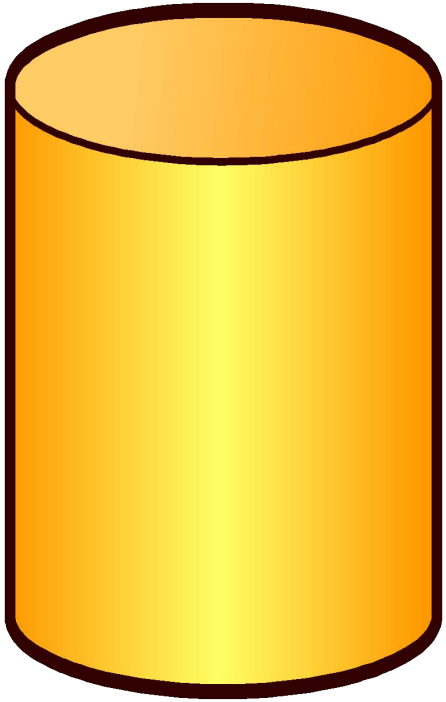
Граней - 6

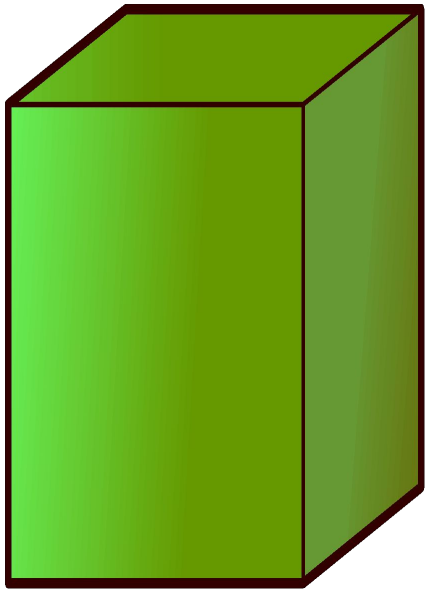
Что такое объем?



SHERSTON OIL



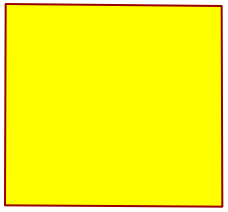




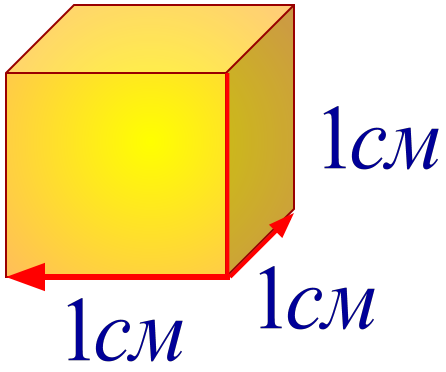
Кубический сантиметр

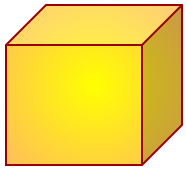
$1см$

$1см^2$



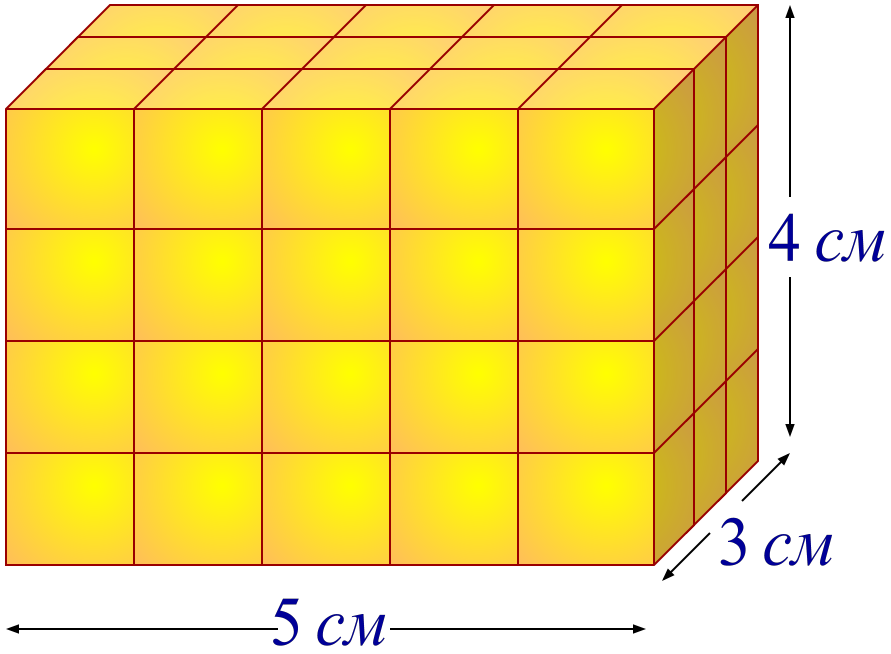
$1см^3$

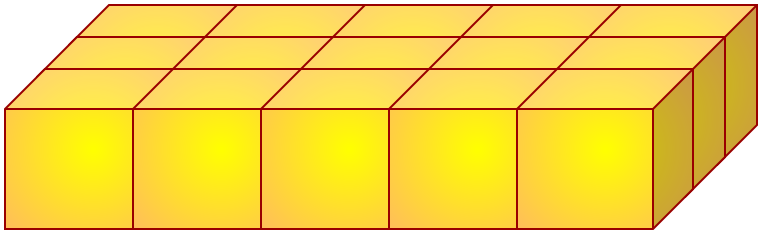


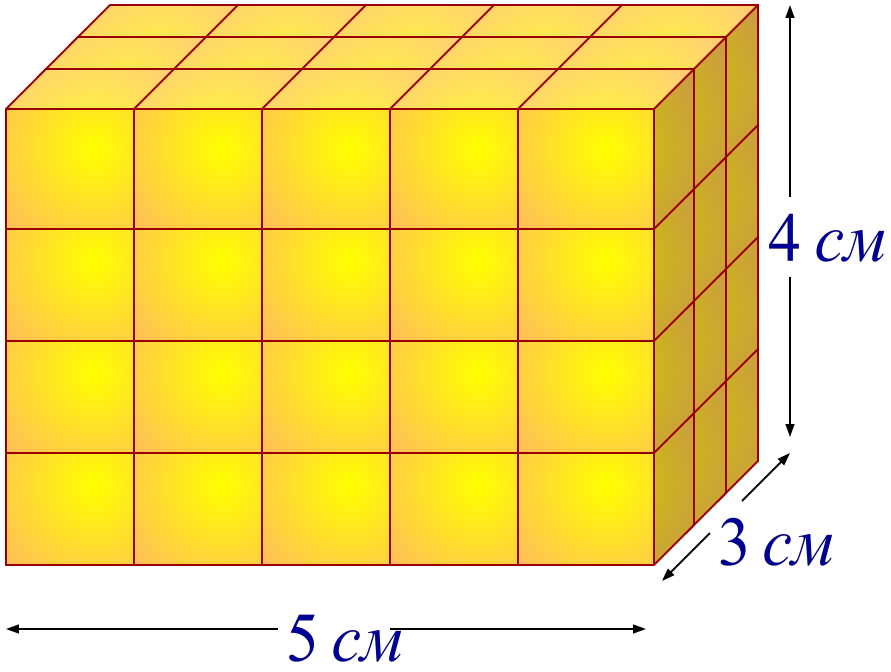


$1см^3$

Объем прямоугольного параллелепипеда

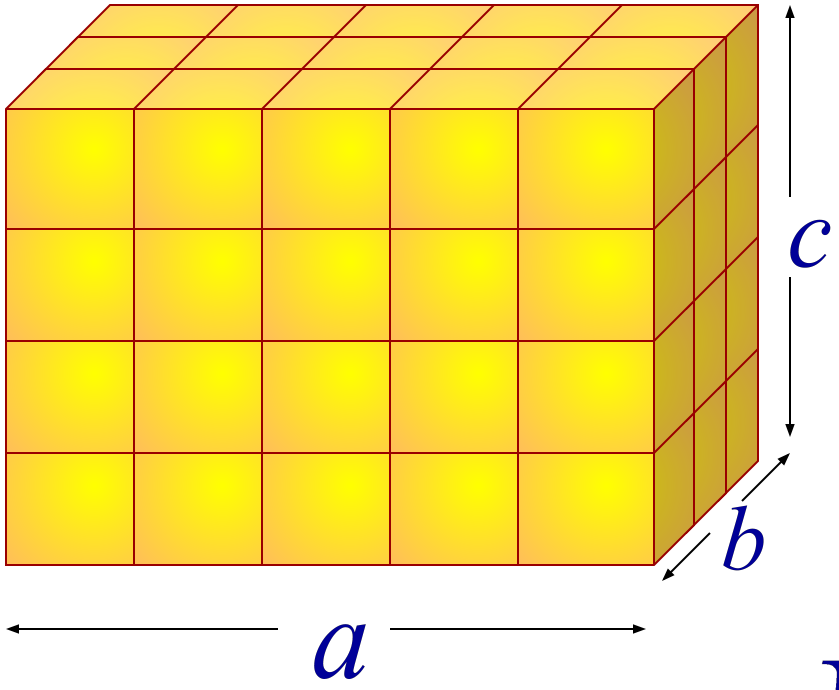






V – *объем*

$$V = 5см \cdot 3см \cdot 4см = 60см^3$$



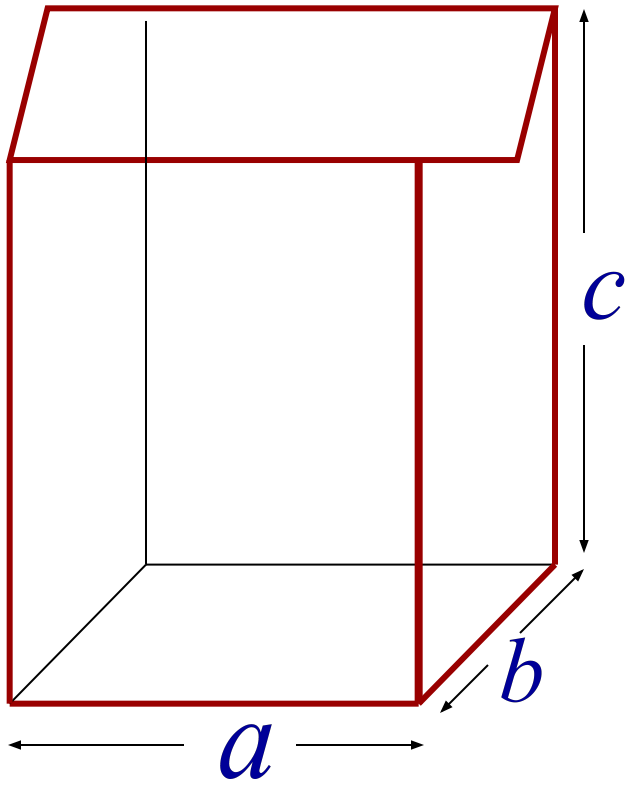
V – объем

$$V = a \cdot b \cdot c$$

$$V = abc$$

a, b, c – измерения

Объем прямоугольного параллелепипеда

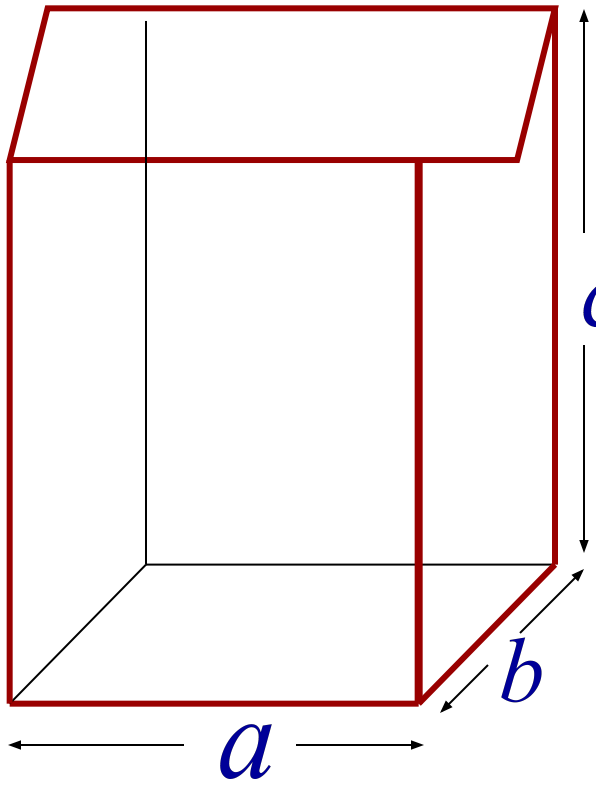


V – объем

$$V = abc$$

a – длина
b – ширина
c – высота
} – измерения

Объем прямоугольного параллелепипеда



V – объем

$$V = abc$$

$$ab = S_o$$

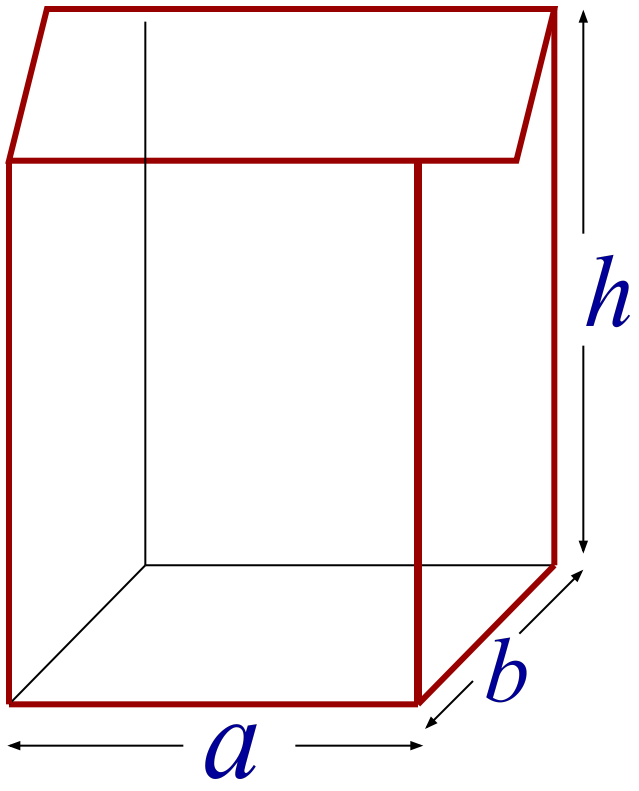
$$V = S_o c = S_o h$$

S_o – площадь основания

h – высота

$$V = S_o h$$

Другая формула объема прямоугольного параллелепипеда



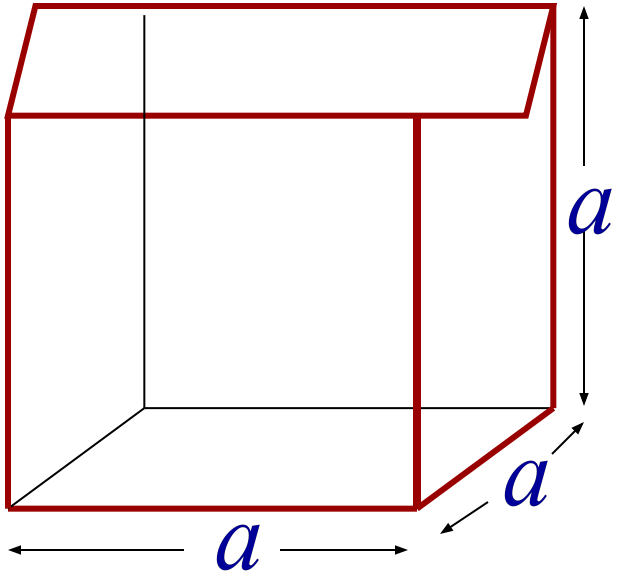
$$V - объем$$

$$V = S_o h$$

S_o – площадь основания

h – высота

Объем куба



$$V - объем$$

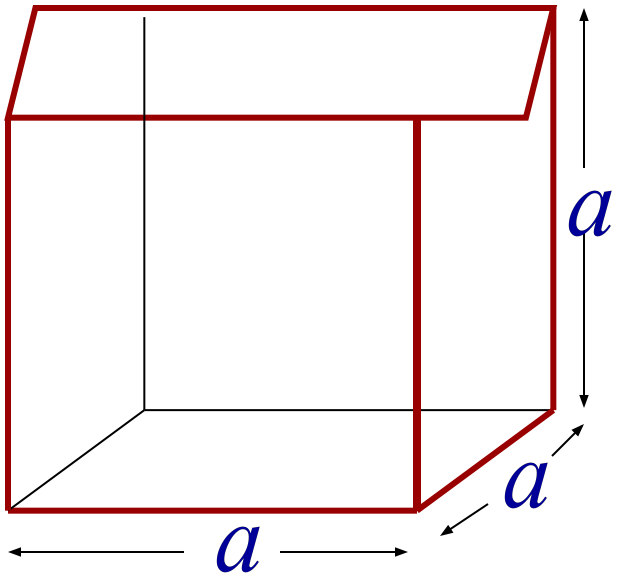
$$V = abc$$

$$a = b = c$$

$$V = a \cdot a \cdot a = ?$$

$$V = a^3$$

Формула объема куба



$$V = a^3$$

V – объем

a – ребро куба

Пример Ребро куба равно 5 см. Найдите объем.

$a = 5см.$

$$V = a^3 = 5^3 = 5 \cdot 5 \cdot 5 = 125 \left(см^3\right).$$