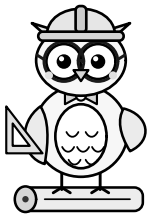
Nome : _____ Data : _____

PAPILUMO / 4.º ano (9–10 anos) • Soluções

Raízes cúbicas de 1 a 1000

Observa o exemplo e a tabela de apoio, completa os três fatores iguais c × c × c = V e escreve cada raiz cúbica.



Sacha o mocho arquiteto mede o volume V dos seus blocos cúbicos de madeira. Ajuda-o a descobrir o comprimento do lado c!

Exemplo resolvido: se c × c × c = 27, então o lado vale c = 3



$3 \times 3 \times 3 = 27 \longrightarrow \sqrt[3]{27} = 3$

Tabela de apoio: cinco primeiros cubos

$1^3 = 1$	$2^3 = 8$	$3^3 = 27$	$4^3 = 64$	$5^3 = 125$

1. Descobre o lado c de cada cubo e completa a sua raiz cúbica

A

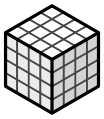


V = 8

$2 \times 2 \times 2 = 8$

$\longrightarrow \sqrt[3]{8} = 2$

B

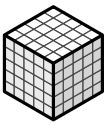


V = 64

$4 \times 4 \times 4 = 64$

$\longrightarrow \sqrt[3]{64} = 4$

C

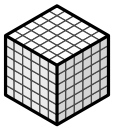


V = 125

$5 \times 5 \times 5 = 125$

$\longrightarrow \sqrt[3]{125} = 5$

D

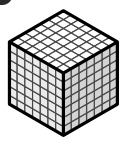


V = 216

$6 \times 6 \times 6 = 216$

$\longrightarrow \sqrt[3]{216} = 6$

E

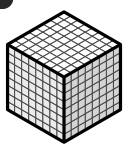


V = 343

$7 \times 7 \times 7 = 343$

$\longrightarrow \sqrt[3]{343} = 7$

F

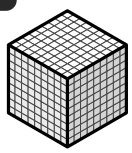


V = 512

$8 \times 8 \times 8 = 512$

$\longrightarrow \sqrt[3]{512} = 8$

G

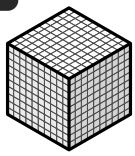


V = 729

$9 \times 9 \times 9 = 729$

$\longrightarrow \sqrt[3]{729} = 9$

H



V = 1000

$10 \times 10 \times 10 = 1000$

$\longrightarrow \sqrt[3]{1000} = 10$

Dica do Sacha: repara no algarismo das unidades do volume e confirma sempre o resultado calculando c × c × c.