

Cryptoquote

Carly Narlesky

“YPX YJWHBD QAM WHRWHWYM: YJM KHWEMADM QHS JKTQH DYKGWSWYN; QHS WT HXY DKAM QZXKY YJM KHWEMADM.”

–Albert Einstein

Math Corner

Tucker Chan

Consider an n -dimensional cube with side length 1, and 2^n spheres of diameter $\frac{1}{2}$ placed in the corners (such that they are tangent to the sides and to each other). Place another sphere in the center of the cube such that it is tangent to all the other spheres.

What is the ratio of the volume of the center sphere to the volume of the cube as n approaches infinity?

Hint: The answer may be non-intuitive.

Word Search

Simone Agha

B	R	U	D	C	O	C	P	O	P	F	P	O	A	M	Y	E	A	L	S
N	L	I	T	F	A	R	C	R	E	V	O	H	R	E	T	S	L	A	T
R	R	K	N	M	B	P	E	I	X	A	R	I	G	X	U	O	C	Q	O
N	B	O	P	X	D	L	I	E	D	X	A	J	L	R	N	O	R	D	I
X	E	O	L	C	T	M	I	N	A	I	N	F	A	R	C	G	O	R	D
Q	R	C	E	L	U	J	M	T	O	M	G	D	C	O	B	N	S	A	K
I	R	O	N	L	E	G	D	A	T	A	E	M	A	R	T	I	A	N	R
S	L	B	U	F	O	R	L	T	P	Z	S	M	D	A	W	B	W	I	H
S	F	E	M	G	P	A	C	I	C	W	Z	A	Y	N	R	Y	W	M	V
R	O	A	E	O	I	A	N	O	N	E	W	Q	P	G	L	W	Q	E	W
Y	P	S	D	O	V	K	B	N	A	T	E	C	U	B	E	E	Z	S	E
C	Q	T	Q	D	C	S	O	H	N	S	Q	J	L	U	A	T	O	G	I
B	W	C	U	A	V	D	Y	H	I	E	T	L	T	Y	D	R	U	N	E
A	M	A	M	H	E	S	D	C	G	F	T	E	S	T	C	V	K	I	E
Q	F	M	S	M	E	S	M	U	N	G	R	S	R	I	U	H	N	R	M
N	C	P	L	M	S	E	I	Q	O	U	N	S	P	O	R	O	M	E	O
D	P	U	R	P	L	E	X	Z	M	L	O	I	E	N	T	I	G	D	S
R	S	S	Q	U	I	D	Q	U	H	S	Z	E	N	Z	A	S	M	L	E
O	D	G	Z	G	O	O	D	A	Z	Z	L	E	G	G	I	N	G	O	W
E	I	U	X	R	A	W	R	E	T	A	W	N	I	X	N	K	L	S	A

WORDS:

SLUGFEST
 EAST CAMPUS
 ROLLERCOASTER
 LEAD CURTAIN
 COCOA
 HOVERCRAFT
 BOYDMIX
 FPOP
 WATER WAR
 SOLDERING SEMINAR
 ORIENTATION

...AND MORE