

CHAPTER-1 | A Square and A Cube

QUIZ
PART-131. What is the cube of $2/3$?

- A. $4/9$
B. $16/27$
C. $8/27$
D. $8/9$ (C)

Explanation: Cube means multiplying the number three times: $2/3 \times 2/3 \times 2/3 = 8/27$.

2. What is the value of $(2.5)^2$?

- A. 6.25
B. 62.5
C. 0.625
D. 625 (A)

Explanation: $2.5 \times 2.5 = 6.25$.

3. What is $(-2)^3$?

- A. 8
B. -8
C. 6
D. -6 (B)

Explanation: A negative number cubed remains negative.

4. What is $(1.5)^2$?

- A. 2.25
B. 3.25
C. 1.25
D. 4.25 (A)

Explanation: $1.5 \times 1.5 = 2.25$.

5. What is $(1.1)^3$?

- A. 1.331
B. 1.31
C. 1.133
D. 1.33 (A)

Explanation: $1.1 \times 1.1 \times 1.1 = 1.331$.

6. What is $(-6)^3$?

- A. 216
B. -216
C. 36
D. -36 (B)

Explanation: $-6 \times -6 \times -6 = -216$.

7. What are taxicab numbers?

- A. Sum of two squares
B. Sum of two cubes in two different ways
C. Product of two cubes
D. Difference of two cubes (B)

Explanation: Taxicab numbers can be written as the sum of two cubes in two different ways.

8. Which is a taxicab number mentioned after 1729?

- A. 4104
B. 4096
C. 4004
D. 4140 (A)

Explanation: The chapter mentions 4104 as the next taxicab number after 1729.

9. Who is connected with taxicab numbers in this chapter?

- A. Aryabhata
B. Srinivasa Ramanujan
C. Euclid
D. Newton (B)

Explanation: The chapter connects taxicab numbers with Srinivasa Ramanujan.

10. Which topic is included in the learning outcomes?

- A. Cube roots only
B. Taxicab Numbers
C. Linear equations
D. Angles (B)

Explanation: The learning outcomes include Taxicab Numbers.