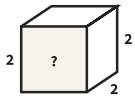


Cubes and Cube Roots

ANSWERS

1

Work out 2^3



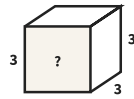
the same number, three times

$$\boxed{2} \times \boxed{2} \times \boxed{2} \\ = \boxed{4} \times \boxed{2} = \boxed{8}$$

Answer 8

2

Work out 3^3



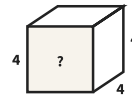
the same number, three times

$$\boxed{3} \times \boxed{3} \times \boxed{3} \\ = \boxed{9} \times \boxed{3} = \boxed{27}$$

Answer 27

3

Work out 4^3



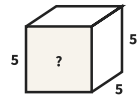
the same number, three times

$$\boxed{4} \times \boxed{4} \times \boxed{4} \\ = \boxed{16} \times \boxed{4} = \boxed{64}$$

Answer 64

4

Work out 5^3



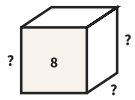
the same number, three times

$$\boxed{5} \times \boxed{5} \times \boxed{5} \\ = \boxed{25} \times \boxed{5} = \boxed{125}$$

Answer 125

5

Work out $\sqrt[3]{8}$



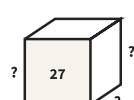
which number, three times, makes 8?

$$\boxed{2} \times \boxed{2} \times \boxed{2} = 8$$

Answer 2

6

Work out $\sqrt[3]{27}$



$$\boxed{3} \times \boxed{3} \times \boxed{3} = 27$$

Answer 3

7

Work out 10^3

$$10 \times 10 \times 10$$

Answer 1000

8

Work out $\sqrt[3]{125}$

$$5 \times 5 \times 5 = 125$$

Answer 5

Cubes and Cube Roots further practice

ANSWERS

9

Work out 6^3



$$6 \times 6 \times 6 = 36 \times 6$$

Answer 216

10

Which of these are cube numbers?

8 16 27 36 64 100



$$2^3 = 8, 3^3 = 27, 4^3 = 64$$

Answer 8, 27, 64

11

Which is bigger, 3^3 or 5^2 ?
Show how you know.

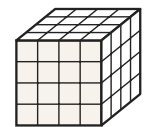


$$3^3 = 27 \text{ and } 5^2 = 25$$

Answer 3^3

12

Sugar cubes are stacked to make one big solid cube. It is 4 sugar cubes long, 4 sugar cubes wide and 4 sugar cubes high. How many sugar cubes are there?



$$4 \times 4 \times 4 = 16 \times 4$$

Answer 64

13

Work out $4^3 - \sqrt[3]{1000}$

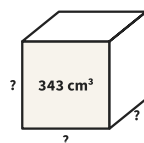


$$64 - 10$$

Answer 54

14

A cube has a volume of 343 cm^3 .
How long is each edge?



$$7 \times 7 \times 7 = 343$$

Answer 7 cm

15

Ben has 125 small cubes. He gets 91 more and uses all of them to make one big solid cube. How many small cubes long is each edge of the big cube?



$$125 + 91 = 216 = 6 \times 6 \times 6$$

Answer 6

16

Mia says the cube root of 64 must be bigger than the square root of 64. Is Mia right? Explain.



$$4 \times 4 \times 4 = 64 \text{ and } 8 \times 8 = 64$$

Answer No, $\sqrt[3]{64} = 4$ and $\sqrt{64} = 8$