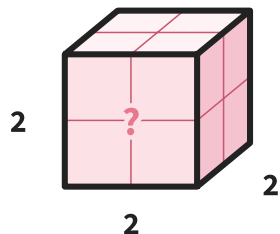


Cubes and Cube Roots

1

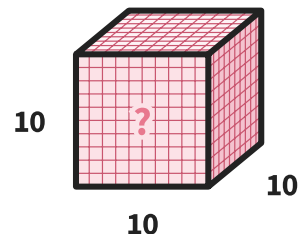
Work out 2^3 .



$$\begin{array}{c}
 \boxed{2} \times \boxed{2} \times \boxed{2} \\
 = \boxed{} \times \boxed{} = \boxed{} \\
 2^3 = \boxed{}
 \end{array}$$

2

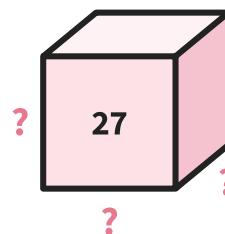
Work out 10^3 .



$$\begin{array}{c}
 \boxed{} \times \boxed{} \times \boxed{} \\
 = \boxed{} \times \boxed{} = \boxed{} \\
 10^3 = \boxed{}
 \end{array}$$

3

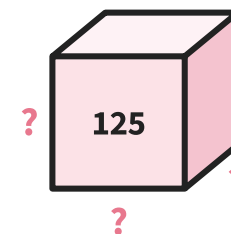
Work out $\sqrt[3]{27}$.



$$\begin{array}{c}
 \boxed{} \times \boxed{} \times \boxed{} \\
 = \boxed{} \times \boxed{} = 27 \\
 \sqrt[3]{27} = \boxed{}
 \end{array}$$

4

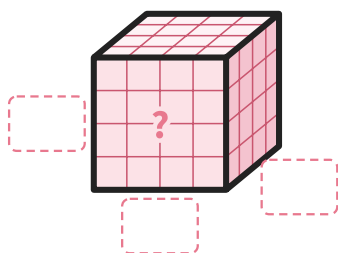
Work out $\sqrt[3]{125}$.



$$\begin{array}{c}
 \boxed{} \times \boxed{} \times \boxed{} \\
 = \boxed{} \times \boxed{} = 125 \\
 \sqrt[3]{125} = \boxed{}
 \end{array}$$

5

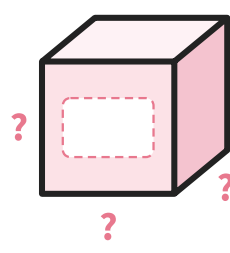
Work out 4^3 .



$$\begin{array}{c}
 \boxed{} \times \boxed{} \times \boxed{} \\
 = \boxed{} \times \boxed{} = \boxed{} \\
 4^3 = \boxed{}
 \end{array}$$

6

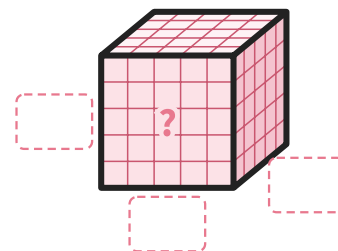
Work out $\sqrt[3]{8}$.



$$\begin{array}{c}
 \boxed{} \times \boxed{} \times \boxed{} \\
 = \boxed{} \times \boxed{} = 8 \\
 \sqrt[3]{8} = \boxed{}
 \end{array}$$

7

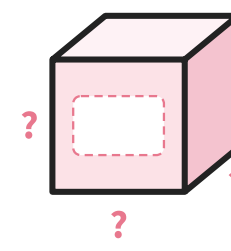
A big cube has 5 small cubes along each edge. How many small cubes make the big cube?



$$\begin{array}{c}
 \boxed{} \times \boxed{} \times \boxed{} \\
 = \boxed{} \times \boxed{} = \boxed{} \\
 \text{Small cubes} = \boxed{}
 \end{array}$$

8

A big cube is made from 64 small cubes. How many small cubes are along each edge?

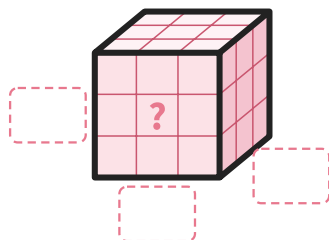


$$\begin{array}{c}
 \boxed{} \times \boxed{} \times \boxed{} \\
 = \boxed{} \times \boxed{} = 64 \\
 \text{Along each edge} = \boxed{}
 \end{array}$$

Cubes and Cube Roots *further practice*

9

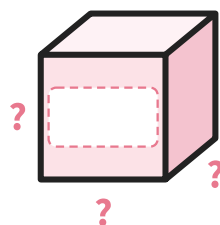
Work out 3^3 .



$$\begin{array}{c} \square \times \square \times \square \\ = \square \times \square = \square \\ 3^3 = \square \end{array}$$

10

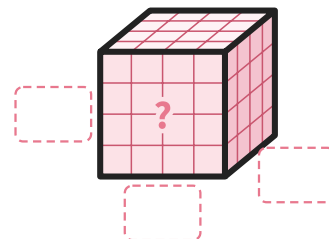
Work out $\sqrt[3]{1000}$.



$$\begin{array}{c} \square \times \square \times \square \\ = \square \times \square = 1000 \\ \sqrt[3]{1000} = \square \end{array}$$

11

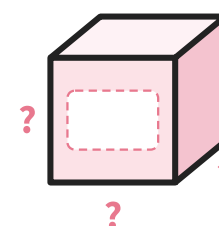
Some dice are stacked to make a cube. There are 4 dice along each edge. How many dice are there?



$$\begin{array}{c} \square \times \square \times \square \\ = \square \times \square = \square \\ \text{Dice} = \square \end{array}$$

12

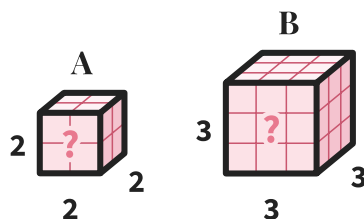
Ben makes a big cube from 125 small cubes. How many small cubes are along each edge?



$$\begin{array}{c} \square \times \square \times \square \\ = \square \times \square = 125 \\ \text{Along each edge} = \square \end{array}$$

13

Here are two cubes, A and B, made of small cubes. How many small cubes are there altogether?



Small cubes in A _____
Small cubes in B _____
Altogether _____

14

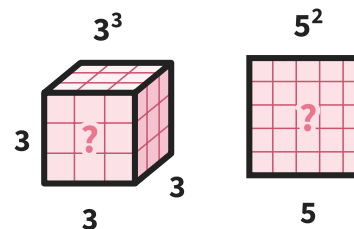
Circle the cube numbers.
Use the lines to help.

6 8 9 12 27 30 64

$$\begin{array}{l} 2 \times 2 \times 2 = \underline{\hspace{2cm}} \\ 3 \times 3 \times 3 = \underline{\hspace{2cm}} \\ 4 \times 4 \times 4 = \underline{\hspace{2cm}} \end{array}$$

15

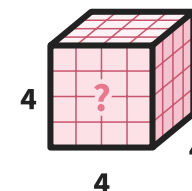
Which is bigger, 3^3 or 5^2 ?



$3^3 =$ _____
 $5^2 =$ _____
Bigger _____

16

Sam says $4^3 = 12$. What has Sam done wrong? Finish the sentences.



Sam has worked out $4 \times$ _____
 $4^3 =$ _____