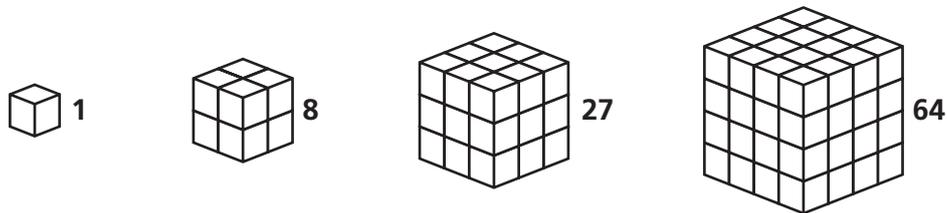# Cube numbers

Explanation

Some numbers are known as cube numbers, such as **1**, **8**, **27** and **64**. Cube numbers are called this as they can be made from this number of small cubes.

$\square$ 1   8   27   64

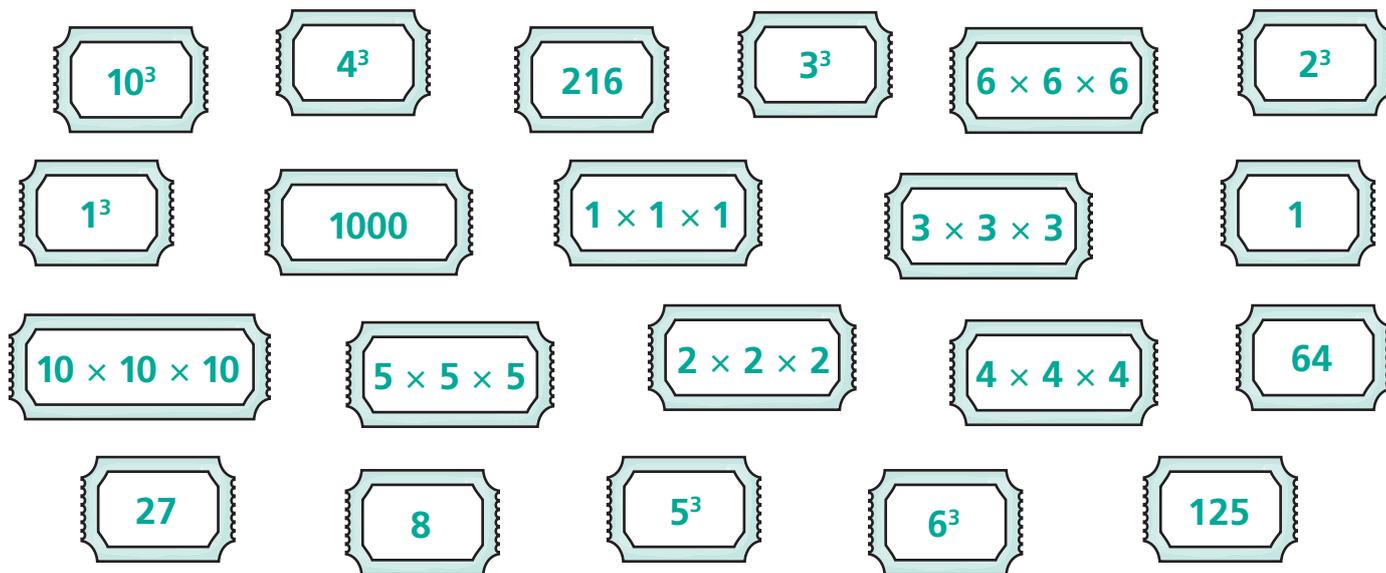Cube numbers are the result of multiplying three of the same number together, like this.

Example $1 \times 1 \times 1 = 1$, $2 \times 2 \times 2 = 8$, $3 \times 3 \times 3 = 27$, $4 \times 4 \times 4 = 64$, $5 \times 5 \times 5 = 125$ ...

Use a small raised ^{3} to mean cubed.

Example 3^3 means **3 cubed** or $3 \times 3 \times 3$, which equals **27**.

Activities

1 Join any tickets that show the same amount.

10^3 4^3 216 3^3 $6 \times 6 \times 6$ 2^3

1^3 1000 $1 \times 1 \times 1$ $3 \times 3 \times 3$ 1

$10 \times 10 \times 10$ $5 \times 5 \times 5$ $2 \times 2 \times 2$ $4 \times 4 \times 4$ 64

27   8 5^3 6^3 125

2 Write the answers to the following questions.

a $1^3 = $ _____1_____

b   _____ $^3 = 27$

c   _____ $^3 = 216$

d $10^3 = $ _____

e $20^3 = $ _____

f $30^3 = $ _____

3 Calculate the following using appropriate multiplication methods.

a $7^3 = 7 \times 7 \times 7 = 49 \times 7 = $ _____

b $9^3 = 9 \times 9 \times 9 = 81 \times 9 = $ _____