

Y5 Square Cube Numbers

KS2 Y5 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

What is 7^2 ?

Step 1 · The small 2 means 'squared'
multiply 7 by itself

Step 2 · 7×7
49

Answer: $7^2 = 49$

Check: 49 dots make a 7 by 7 square ✓

2. Now try one with the steps

What is 4^3 ?

Step 1 · The small 3 means 'cubed'

Step 2 · 4×4

Step 3 · 16×4

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. What is 5^2 ?

2. What is 9^2 ?

3. What is 2^3 ?

4. What is 10^3 ?

5. List the square numbers up to 100.

6. List the first five cube numbers.

7. What is 12^2 ?

8. Which of these are square numbers: 18, 36, 48, 64, 90?

9. Work out $6^2 - 5^2$.

10. Work out $3^3 + 4^2$.

11. Which number between 60 and 70 is a square number?

12. Which number is both a square number and a cube number, and is between 2 and 100?

13. A square patio has 121 square slabs. How many slabs long is each side?

14. A cube is built from 125 small cubes. How many small cubes long is each edge?

4. Before you hand it in

Working out 5^2 as 10.

The small 2 means multiply the number by itself: $5^2 = 5 \times 5 = 25$.

Working out 4^3 as 12.

$4^3 = 4 \times 4 \times 4 = 64$. Think of 4 layers of a 4 by 4 square.

Saying 2^3 is the same as 3^2 .

$2^3 = 8$ but $3^2 = 9$. The big number is what you multiply; the small number tells you how many times it appears.