

SQUARES, CUBES, ROOTS

Task 1

- 1) Work out the value of 3^2 .
- 2) Work out the value of 5^2 .
- 3) Work out the value of 10^2 .
- 4) Work out the value of $\sqrt{16}$.
- 5) Work out the value of $\sqrt{49}$.
- 6) Work out the value of 2^3 .
- 7) Work out the value of 4^3 .
- 8) Work out the value of $\sqrt[3]{27}$.
- 9) Work out the value of $\sqrt[3]{125}$.
- 10) Work out the value of 12^2 .
- 11) Work out the value of 5^3 .
- 12) Work out the value of $\sqrt{81}$.
- 13) Work out the value of $\sqrt[3]{64}$.
- 14) Work out the value of 15^2 .
- 15) Work out the value of 6^3 .
- 16) Work out the value of $\sqrt{121}$.
- 17) Work out the value of $\sqrt[3]{1000}$.
- 18) Work out the value of 20^2 .
- 19) Work out the value of 10^3 .
- 20) Work out the value of $\sqrt{196}$.

Task 2

- 21) Write $4 \times 4 \times 4$ as a single power of 4.
- 22) Write $2 \times 2 \times 2 \times 2 \times 2$ as a single power of 2.
- 23) A list of numbers is shown below.
5 7 9 11 13 15
Which of the numbers is a square number?
- 24) A list of numbers is shown below.
2 4 6 8 10 12
Which of the numbers are powers of 2?
- 25) A square garden has an area of 81 m^2 . What is the length of one side?
- 26) A cube-shaped box has a volume of 27 cm^3 . What is the length of one edge?
- 27) Jack has 100 square tiles. He wants to arrange them in a square. How many tiles will be on each side?
- 28) A square picture frame has sides that are 12 inches long. What is its area?
- 29) A square has an area of 36 cm^2 . What is the perimeter of the square?
- 30) A poster is in the shape of a square and has an area of 225 cm^2 . What is the side length?
- 31) The square of a number is 256. What is the number?
- 32) A square window has a perimeter of 36 inches. What is the area?