

## Exercise 51

The volume of a cube depends on the length of the sides  $s$ .

- Write a function  $V(s)$  for the volume of a cube.
  - Find and interpret  $V(11.8)$ .
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### Solution

#### Part a.

The volume of a cube is obtained by multiplying the length, width, and height together.

$$V(s) = s \times s \times s = s^3$$

#### Part b.

$V(11.8)$  is the volume of a cube if the side length is 11.8 units.

$$V(11.8) = (11.8)^3 \approx 1643 \text{ units}^3$$