

# Volume of a Cube Word Problems

1. Jenny is playing a game of dice. Each side of the dice measures 5.7 inches. What is its volume?
2. a) David has an ice cube with each side measuring 2.5 cm. What is its volume?  
b) If David has a tray that can hold 10 such ice cubes, find the total volume of all the ice cubes.
3. The surface area of one face of a cube is  $49 \text{ yd}^2$ . Calculate its volume.
4. Calculate the volume of a cube with each side measuring 13.5 ft.
5. Alex has a Rubik's cube with each side measuring 4 inches. What is its volume?

# Volume of a Cube Word Problems

## Answers

1. Jenny is playing a game of dice. Each side of the dice measures 5.7 inches. What is its volume?

185.193 in<sup>3</sup>

2. a) David has an ice cube with each side measuring 2.5 cm. What is its volume?  
b) If David has a tray that can hold 10 such ice cubes, find the total volume of all the ice cubes.

15.625 cm<sup>3</sup> , 156.25 cm<sup>3</sup>

3. The surface area of one face of a cube is 49 yd<sup>2</sup>. Calculate its volume.

343 yd<sup>3</sup>

4. Calculate the volume of a cube with each side measuring 13.5 ft.

2460.375 ft<sup>3</sup>

5. Alex has a Rubik's cube with each side measuring 4 inches. What is its volume?

64 in<sup>3</sup>