

To find the volume of a cube, we can use the formula:

$$\text{Volume} = \text{side} \times \text{side} \times \text{side}$$

In this case, the side length of the cube is 20cm. So we can plug in the values:

$$\text{Volume} = 20\text{cm} \times 20\text{cm} \times 20\text{cm}$$

Now, let's do the multiplication step by step:

1. First, multiply the first two sides:
 - $20\text{cm} \times 20\text{cm} = 400\text{cm}^2$
2. Next, multiply the result by the third side:
 - $400\text{cm}^2 \times 20\text{cm} = 8000\text{cm}^3$

Therefore, the volume of a cube with dimensions 20cm x 20cm x 20cm is **8000 cubic centimeters (cm³)**.