Volume of Rectangular Prisms

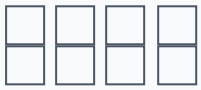
Name: _____ Date: _____

Remember: Volume = length × width × height
Volume is measured in cubic units (cm^3, m^3, etc.)

Section A: Count the Cubic Units 📦

Each small cube represents 1 cubic centimetre (cm^3). Count all the cubes to find the volume.

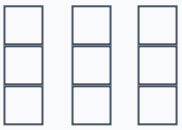
1.



2 layers of 4 cubes

Volume = _____ cm^3

2.



3 layers of 3 cubes

Volume = _____ cm^3

Section B: Calculate Using the Formula 📐

Use the formula: Volume = length × width × height

3. Length = 5 cm, Width = 3 cm, Height = 2 cm

Volume = _____ × _____ × _____ = _____ cm^3

4. Length = 6 m, Width = 4 m, Height = 3 m

Volume = _____ × _____ × _____ = _____ m^3

5. Length = 10 cm, Width = 5 cm, Height = 4 cm

Volume = _____ × _____ × _____ = _____ cm^3

6. Length = 8 m, Width = 8 m, Height = 5 m

Volume = _____ × _____ × _____ = _____ m^3

Section C: Word Problems 🧮

7. A toy box is 60 cm long, 40 cm wide, and 30 cm high. What is the volume of the toy box?

Volume = _____ = _____ cm^3

8. A swimming pool is 12 m long, 6 m wide, and 2 m deep. What is the volume of water it can hold?

Volume = _____ = _____ m^3

9. A rectangular fish tank has a length of 50 cm, a width of 25 cm, and a height of 30 cm. Calculate its volume.

Volume = _____ = _____ cm^3