Volume of Rectangular Prisms

Name: _____ Date: _____

Remember: Volume = length × width × height (V = l × w × h)

Volume is measured in cubic units (cm^3, m^3, etc.)

Section A: Find the Volume

Calculate the volume of each rectangular prism.

1. Length = 8 cm, Width = 5 cm, Height = 3 cm Volume = _____ cm^3
2. Length = 12 m, Width = 4 m, Height = 6 m Volume = _____ m^3
3. Length = 7 cm, Width = 7 cm, Height = 7 cm Volume = _____ cm^3
4. Length = 15 mm, Width = 10 mm, Height = 8 mm Volume = _____ mm^3
5. Length = 9 m, Width = 3 m, Height = 5 m Volume = _____ m^3

Section B: Word Problems

6. A fish tank is 50 cm long, 30 cm wide, and 40 cm high. What is the volume of the fish tank?

Volume = _____ cm^3

7. A storage container measures 2 m by 1.5 m by 2.5 m. Calculate its volume.

Volume = _____ m^3

8. A shipping box has dimensions of 60 cm × 45 cm × 30 cm. Find the volume of the box.

Volume = _____ cm^3

Section C: Challenge Questions

9. A rectangular prism has a volume of 360 cm^3. If its length is 10 cm and its width is 6 cm, what is its height?

Height = _____ cm

10. A cube has a volume of 216 m^3. What is the length of one edge of the cube?

Edge length = _____ m