Calculating 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.)

Part A: Calculate the Volume

1. Length = 8 cm, Width = 5 cm, Height = 3 cm

Volume = _____ cm^3

2. Length = 12 m, Width = 7 m, Height = 4 m

Volume = _____ m^3

3. Length = 15 cm, Width = 10 cm, Height = 6 cm

Volume = _____ cm^3

4. Length = 9 m, Width = 9 m, Height = 5 m

Volume = _____ m^3

Part B: Rectangular Prism Diagrams

Calculate the volume of each rectangular prism shown below:

5.

Volume = _____ cm^3

6.

Volume = _____ m^3

Part C: Word Problems

7. A shipping container is 20 metres long, 8 metres wide, and 6 metres high. What is the volume of the container?

Working: _____

Volume = _____ m^3

8. A fish tank has a length of 50 cm, a width of 30 cm, and a height of 40 cm. Calculate the volume of the fish tank.

Working: _____

Volume = _____ cm^3

9. A rectangular box measures 18 cm by 12 cm by 9 cm. What is its volume?

Working: _____

Volume = _____ cm^3