



Problem Solving with Volumes of Cuboid - A

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Score: \_\_\_\_\_

Student Number: \_\_\_\_\_

Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Solve the following problems. Show the working and write the sentence answer. No erasure.

1.) The area of the base of a rectangular box is  $360 \text{ cm}^2$  and its height is 14 cm. Sand is put into the box until it is half full. Find the volume of sand in the box. Express your answer in cubic centimetres.

A. Working:

B. Answer: \_\_\_\_\_

2.) A rectangular tank measures 40 cm by 22 cm by 10 cm. It contains 7.3 l of water. What is the volume of water needed to fill the tank completely?

A. Working:

B. Answer: \_\_\_\_\_

3.) A rectangular tank measuring 25 cm by 20 cm by 12 cm was half-filled with water. There was a leak in the tank and after some time, the water level fell to 4 cm. What was the volume of water that leaked from the tank? Express your answer in litres.

A. Working:

B. Answer: \_\_\_\_\_

