*ANSWERS

1a. The cuboid is made out of 6 cm cubes. The volume of the cuboid is 6cm3

1b. The cuboid is made out of 10 cm cubes. The volume of the cube is 10 cm3

2a. A = 8cm3; B = 12cm3

2b. A = 12cm3; B = 8cm3

3a. A. 200cm3; B. 40cm3

3b. A. 50cm3; B. 200cm3

4a. False. It is 12cm3

4b. False. It is 8cm3

**ANSWERS

5a. The cuboid is made out of 16 cm cubes. The volume of the cube is 16 cm3.

5b. The cuboid is made out of 18 cm cubes. The volume of the cube is 18 cm3

6a. A = 24cm3; B = 20cm3.

6b. A = 18cm3; B = 24cm3.

7a. A. 50cm3; B. 400cm3; C. 70cm3. 8a. False. It is 20cm3

7b. A. 300cm3; B. 10cm3; C. 900cm3. 8b. False. It is 18cm3

***ANSWERS

9a. The cuboid is made out of 23 cm cubes. The volume of the cube is 23 cm3

9b. The cuboid is made out of 22 cm cubes. The volume of the cube is 22 cm3

10a. A = 10cm3; B = 14cm3.

10b. A = 18cm3; B = 14cm3.

11a. A. 350cm3; B. 50cm3; C. 250cm3.

11b. A. 450cm3; B. 70cm3; C. 850cm3

12a. False. It is 17cm3

.12b. False. It is 24cm3

CHALLENGE

7a. A + B + (C or D). A has 17 cubes, B has 21 cubes and C and D both have 7 cubes. 17 + 21 + 7 = 45.

7b. A + B + D. A has 23 cubes, B has 14 cubes and D has 18 cubes. 23 + 14 + 18 = 55.

8a. 8cm3 is the odd one out because there is no cuboid that has this number of cubes.

8b. 20cm3 is the odd one out because there is no cuboid that has this number of cubes.

9a. Yes. By moving the top 2 cubes to the second layer she creates a cuboid that is 3 x 3 x 2 = 18cm3.

9b. No. The cuboid would be 4 cubes long, 2 cubes wide and 2 cubes high. Its volume would be 4 x 2 x 2 = 16cm3