**Volume and Surface Area (F)**

Pre-Intervention Assessment

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

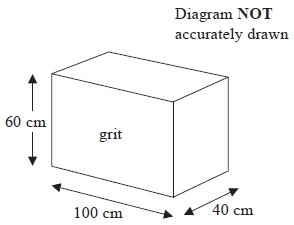
Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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| **Question** | **Objective** | **RAG** |
| 1 | Calculate volume and surface area of cubes and cuboids |  |
| 2 | Calculate volume and surface area of prisms, including cylinders |  |

**1.** The diagram shows a box for winter grit.

The box is in the shape of a cuboid.   
The box is empty.

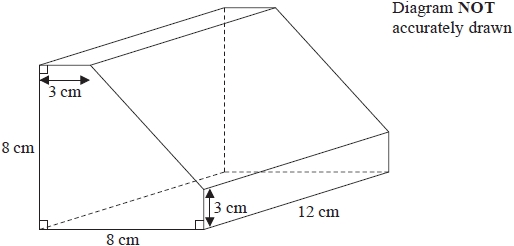


Jon wants to fill the box with grit.   
A bag of grit costs £2.50   
There are 8000 cm3 of grit in a bag.

Jon has £70 to spend on the grit.

Does Jon have enough money to buy all the grit he needs to fill the box completely?

**2**. Here is a solid prism.



Work out the volume of the prism.   
You must show all your working.

[Glue here]