**Volume and Surface Area (F)**

Pre-Intervention Assessment

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

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

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

|  |  |  |
| --- | --- | --- |
| **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]