**of cuboids**

**surface area**

**volume &**

**D**

**Pythagroas**

**GRADE BUSTER**

*Your ‘5 a day’ mathematical workout*

1. Find the volume and surface area of the following cuboids:

a) b) c)

3cm

7cm

2cm

6cm

2cm

5cm

4cm

2. The volume of a cuboid is 240cm³. The base is 12cm and the height is 4cm. Calculate the width of the cuboid.

3. Find 3 different cuboids with a surface area greater than 200cm² and less than 400cm².

4. i) Explain what is wrong with the following solution:

8 x 5 = 40cm²

5 x 3 = 15cm²

8 x 3 = 24cm²

Surface Area = 40 + 15 + 24

= 79cm²

Calculate the surface area of

a cuboid with dimensions

8cm x 5cm x 3cm.

ii) Find the correct solution

5) Pam’s tropical fish tank is a cuboid with dimensions 1.6m x 60cm x 80cm. She fills the tank with water at a rate of 50cm³/second. How long will it take Pam to fill the tank to the top in hours and minutes?

|  |  |  |  |
| --- | --- | --- | --- |
| Qu |  | ☺ | ☹ |
| 1 | I can find the volume of a cuboid. |  |  |
| 1, 3 & 4 | I can find the surface area of a cuboid. |  |  |
| 2 & 5 | I can solve problems involving volume |  |  |

|  |
| --- |
| Top tips I must remember for the exam: |
| ☺  ☺  ☺ |
| Types of questions I need to practise more: |
| ☺  ☺  ☺ |