**SURDS**

**A**

**Pythagroas**

**GRADE BUSTER**

*Your ‘5 a day’ mathematical workout*

1. Simply:

a) $\sqrt{28}$ b) $\sqrt{50}$ c) $\sqrt{45}$ d) $\sqrt{200}$

2. Simplify:

a) $\frac{2}{\sqrt{3}}$ b) $\frac{5}{\sqrt{2}}$ c) $\frac{2}{\sqrt{12}}$

3. Find 3 different with surds that can be simplified to the form p$\sqrt{3}$

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

$$\sqrt{40}= \sqrt{4 × 10}$$

$$=10\sqrt{2}$$

i) Simply: $\sqrt{40}$

ii) Find the correct solution

5. Simplify: $\sqrt{20}+2\sqrt{3}+\sqrt{45}+ \sqrt{75}$

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| Qu |  | ☺ | ☹ |
| 1, 3 & 4 | I can simplify simple surds |  |  |
| 2 | I can simplify expressions with denominator surds  |  |  |
| 5 | I can simplify expressions involving surds  |  |  |

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