**PROPORTION**

**RATIO &**

**C**

**Pythagroas**

**GRADE BUSTER**

*Your ‘5 a day’ mathematical workout*

1. Tom, Tim and Bill share £60 in the ratio 2:3:5. Calculate the amount each person receives.

2. The recipe for ‘Amanda’s Famous Welsh Soup’ is 4 potatoes, 80g of diced carrots, 250g of ham and 2 onions. It serves 4 people.

How many of each ingredient is required to make the soup for 10 people?

3. A pot of money is divided equally between Matt and Kenny using different ratio. Find 3 different sets of money and ratio that would give Matt £25.

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

*1 + 2 + 4 + 5 = 12*

*240º ÷ 12 = 20º*

*1* x *20º = 20º*

*2* x *20º = 40º*

*4* x *20º = 80º*

Four angles in a polygon are in the ratio

1:2:4:5.

If the largest angle is 240º, find the

value of each of the other three

angles.

ii) Find the correct solution

5) Mia can’t decide whether to buy a 3 litre bottle of lemonade for £1.65 or 1 small bottle (250ml) for 14p.

What advice would you give Mia?

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| Qu |  | ☺ | ☹ |
| 1, 3 & 4 | I can solve problems involving ratio |  |  |
| 2 & 5 | I can solve problems using proportional reasoning |  |  |

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