

Proportion - Recipes and the Unitary Method

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **20**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

- 1** Here is a recipe for vegetable curry.

Vegetable curry (serves 4)

Potatoes	600 g
Coconut milk	400 ml
Onions	2

Imran is making vegetable curry for 6 people.
Work out how much of each ingredient he needs.

Potatoes _____ g

Coconut milk _____ ml

Onions _____

[3 marks]

- 2** A pasta bake for 5 people uses 350 g of pasta.
Gwen makes a larger pasta bake using the same recipe.
She uses 490 g of pasta.
How many people is Gwen's pasta bake for?

[2 marks]

Answer _____ people

- 3** 5 pens cost £3.40
Work out the cost of 8 pens.

[2 marks]

Answer £ _____

- 4** A machine puts labels on jars.
It labels 75 jars every 6 minutes.
The machine starts at 10:45 am and needs to label 1500 jars.
It also stops once for a 15-minute break.
At what time does the machine finish?

[4 marks]

Answer _____

- 5** A rice dish for 8 people uses 300 g of rice.
Jo has 1 kg of rice.
What is the greatest number of people Jo can make this rice dish for?

[3 marks]

Answer _____

- 6 A car uses 12 litres of fuel to travel 150 km.
How much fuel will it use to travel 400 km?

[2 marks]

Answer _____ litres

- 7 Here are the ingredients needed to make 10 glasses of fruit punch.

10 glasses of fruit punch

Orange juice	400 ml
Pineapple juice	250 ml
Lemonade	150 ml

Bethan has 1.5 litres of orange juice, 1 litre of pineapple juice and 500 ml of lemonade.

What is the greatest number of glasses of fruit punch Bethan can make?

You must show your working.

[4 marks]

Answer _____