

Anzac Biscuits

Maths Challenge Cards



Baffled by Biscuits – Challenge 1

The recipe makes 20 biscuits. Can you adapt the recipe so that there will be enough biscuits for your class and your buddy class to have one each? The total number of students is 40.

Record the new ingredient measurements here:



Baffled by Biscuits – Challenge 2

Your teacher has now decided that it would be a nice idea to make enough biscuits for every student in the school to have one. Please alter the recipe so that it will make 120 biscuits, showing your working.

Record the new ingredient measurements here:



Baffled by Biscuits – Challenge 3

The principal is worried about the cost of the ingredients and is considering having you make them on a day when just over half the school are away on camp. Please adapt the recipe so that it makes 50 biscuits instead, showing your working.

Record the new ingredient measurements here:



Baffled by Biscuits – Challenge 4

Wouldn't you know it? Camp got rained out! Your teacher is now worried that they miscounted the number of students – please adapt the recipe so that it makes 125 biscuits, showing your working.

Record the new ingredient measurements here:

- When you have finished, rewrite the ingredient amounts so that they are rounded to a whole number and the amounts are suited to real-world cooking.



Baffled by Biscuits – Challenge 5

Write some mathematical questions for another group to answer about the recipe quantities.

Example:

- You decide to add 1 tsp of vanilla essence (5ml) to the original recipe. How many batches of biscuits (20 biscuits per batch) could you make if you had a 125ml bottle of vanilla essence?

Baffled by Biscuits – Challenge 1 Example Answers

The recipe makes 20 biscuits. Can you adapt the recipe so that there will be enough biscuits for your class and your buddy class to have one each? The total number of students is 40.

The students will double the amount / multiply the amount by 2.

200g flour
300g sugar
250g coconut
2 cups rolled oats
200g butter
2 tbsp golden syrup
1 tsp bicarbonate of soda
4 tbsp boiling water

Baffled by Biscuits – Challenge 2 Example Answers

Your teacher has now decided that it would be a nice idea to make enough biscuits for every student in the school to have one. Please alter the recipe so that it will make 120 biscuits, showing your working.

Methods showing workings will vary. One way is multiply the 40-biscuit batch by 3. Another way is to multiply the original 20-biscuit batch by 6.

750g flour
900g sugar
750g coconut
6 cups rolled oats
600g butter
6 tbsp golden syrup
3 tsp bicarbonate of soda
12 tbsp boiling water

Baffled by Biscuits – Challenge 3 **Example Answers**

The principal is worried about the cost of the ingredients and is considering having you make them on a day when just over half the school are away on camp. Please adapt the recipe so that it makes 50 biscuits instead, showing your working.

Methods showing workings will vary. One method is to multiply the original quantities (n) by 2.5

$2.5n$ gives ingredient quantities to make 50 biscuits.

Students may also add on $\frac{1}{2}$ (.5) of the original quantities to their totals for 40 biscuits.

Actual	Real World / Practical
312.5g flour	300g flour
375g sugar	375g sugar
312.5g coconut	300g coconut
$2\frac{1}{2}$ cups rolled oats	$2\frac{1}{2}$ cups rolled oats
250g butter	250g butter
$2\frac{1}{2}$ tbsp golden syrup	2 or 3 tbsp golden syrup
$1\frac{1}{4}$ tsp bicarbonate of soda	1 tsp bicarbonate of soda
5 tbsp boiling water	5 tbsp boiling water

Baffled by Biscuits – Challenge 4 **Example Answers**

Wouldn't you know it? Camp got rained out! Your teacher is now worried that they miscounted the number of students – please adapt the recipe so that it makes 125 biscuits, showing your working.

Methods showing workings will vary. One method is to multiply the original quantities (n) by 6.25

$6.25n$ gives ingredient quantities to make 125 biscuits.

Students may also add on $\frac{1}{4}$ (.25) of the original quantities to their totals for 120 biscuits.

Actual	Real World / Practical
781.25g flour	780g flour
937.5g sugar	940g sugar
781.5g coconut	780g coconut
$6\frac{1}{4}$ cups rolled oats	$6\frac{1}{4}$ cups rolled oats
625g butter	625g butter
$6\frac{1}{4}$ tbsp golden syrup	6 tbsp golden syrup
$3\frac{1}{8}$ tsp bicarbonate of soda	3 tsp bicarbonate of soda
$12\frac{1}{2}$ tbsp boiling water	12 tbsp boiling water

Baffled by Biscuits – Challenge 5 Example Answers

Write some mathematical questions for another group to answer about the recipe quantities.

Answers will vary